

Regular Meeting  
**WINNETKA VILLAGE COUNCIL**  
**COMMUNITY HOUSE**  
**620 LINCOLN AVENUE**  
**MATZ HALL**  
Winnetka, Illinois 60093  
August 2, 2011 – 7:30 p.m.

Emails regarding any agenda item are welcomed. Please email [LRosenthal@winnetka.org](mailto:LRosenthal@winnetka.org), and your email will be relayed to the Council members. Emails for the Tuesday Council meeting must be received by Monday at 4 p.m. Any email may be subject to disclosure under the Freedom of Information Act.

**AGENDA**

- 1) Call to Order
- 2) Pledge of Allegiance to the Flag
- 3) Quorum
  - a) August 9, 2011, Study Session (**Cancelled**)
  - b) August 16, 2011, Regular Meeting
  - c) September 6, 2011, Regular Meeting
- 4) Approval of Agenda
- 5) Consent Agenda
  - a) Village Council Minutes.
    - i) June 21, 2011, Regular Meeting..... 2
    - ii) July 5, 2011, Study Session..... 6
  - b) Warrant Lists Nos. 1711 and 1712..... 9
  - c) Resolution R-27-2011: Plat of Dedication for Trapp Lane ..... 10
  - d) Rock Salt Purchase Bid: ..... 20
- 6) Ordinances and Resolutions
  - a) Resolution R-28-2011: Waiving Permit Fees for Storm Repairs – Adoption ..... 21
- 7) Public Comment and Questions
- 8) Old Business
  - a) Stormwater Report & Stormwater Management Strategies ..... 26
- 9) Reports
- 10) Appointments
- 11) Executive Session
- 12) Adjournment

**NOTICE**

All agenda materials are available at [villageofwinnetka.org](http://villageofwinnetka.org) (Council > Current Agenda), the Reference Desk at the Winnetka Library, or in the Manager’s Office at Village Hall (2<sup>nd</sup> floor).

Videos of the Regular Village Council meetings are televised on Channel 10, M-W-F-Sa-Su at 7:00PM, and on Chan F-Su at 7:00AM or 7:00PM. Videos of meetings may also be viewed on a link at the Village’s web site: [villageofwinnetka.org](http://villageofwinnetka.org)

The Village of Winnetka, in compliance with the Americans with Disabilities Act, requests that all persons with disabilities who require certain accommodations to allow them to observe and/or participate in this meeting or have questions about the accessibility of the meeting or facilities, contact the Village ADA Coordinator – Liz Rosenthal, at 510 Green Bay Road, Winnetka, Illinois 60093, 847.716.3540; T.D.D. 847.501.6041.nel 18 M-

**MINUTES  
WINNETKA VILLAGE COUNCIL  
REGULAR MEETING  
June 21, 2011**

(Approved: xx)

A record of a legally convened meeting of the Council of the Village of Winnetka, which was held in the Police Department Classroom at 410 Green Bay Road on Tuesday, June 21, 2011, at 7:30 p.m.

- 1) Call to Order. President Tucker called the meeting to order at 7:34 p.m. Present: Trustees Arthur Braun, Gene Greable, Bill Johnson, Richard Kates, Chris Rintz and Jennifer Spinney. Absent: None. Also present: Village Manager Robert Bahan, Village Attorney Katherine Janega, Public Works Director Steve Saunders, Community Development Director Mike D'Onofrio and approximately 20 persons in the audience.
- 2) Pledge of Allegiance. President Tucker led the group in the Pledge of Allegiance.
- 3) Quorum.
  - a) July 5, 2011 Regular Meeting. All of the Council members present, with the exception of Trustee Rintz, indicated that they expected to attend.
  - b) July 12, 2011, Study Session. All of the Council members present, with the exception of President Tucker and Trustee Braun indicated that they expected to attend.
- 4) Approval of the Agenda. Trustee Rintz removed Item 5(c) from the Consent Agenda for separate discussion. Trustee Johnson, seconded by Trustee Braun, moved to approve the Agenda as amended. By roll call vote, the motion carried. Ayes: Trustees Braun, Greable, Kates, Johnson, Rintz and Spinney. Nays: None. Absent: None.
- 5) Consent Agenda
  - a) Village Council Minutes.
    - i) April 6, 2010, Regular Council Meeting.
    - ii) May 3, 2011, Regular Council Meeting.
    - iii) May 17, 2011, Regular Council Meeting.
  - b) Warrant Lists Nos. 1705 and 1706. Approves Warrant List No. 1705 in the amount of \$1,273,319.44, and Warrant List No. 1706 in the amount of \$359,925.04.
  - c) Energy Efficiency Audit Proposals. Authorizes the Village Manager to award a contract to EMG in an amount not to exceed \$40,105, in accordance with the terms of RFP #011-003, to perform energy efficiency audits in conjunction with an Energy Efficiency and Conservation Block Grant awarded to the Village.
  - d) Resolution R-24-2011: Second Amendment to the Verizon Wireless Cell Site Agreement. Approves the second amendment to the 2007 Cellular Antenna License Agreement between the Village of Winnetka and Chicago SMSA Limited Partnership, d/b/a Verizon Wireless, substantially in the form presented in Exhibit A.

- e) Proclamation: Commemorating 25<sup>th</sup> Anniversary of “Welcome Home.” Removed from the consent agenda at the request of Trustee Rintz for discussion in new business.

Trustee Johnson, seconded by Trustee Spinney, moved to approve the foregoing items on the Consent Agenda by omnibus vote. By roll call vote, the motion carried. Ayes: Trustees Braun, Greable, Kates, Johnson, Rintz and Spinney. Nays: None. Absent: None.

6) Ordinances and Resolutions.

a) Special Service Areas #4 & #5.

- i) Ordinance M-9-2011: Amending Boundaries of Special Service Area #4 – Pavement and Stormwater Improvements to the Public Alley Bounded by Elm-Oak-Locust-Rosewood– Introduction/Adoption. President Tucker announced that the subject ordinance would delete three properties from SSA #4, as all three parcels are at the edge of the proposed SSA that do not use alley access. She explained that at the public hearing held at the June 7<sup>th</sup> Council Meeting, the Council agreed to exclude these properties and to cut their share of costs in half, on the condition that the owners make an up-front, lump-sum payment. She concluded that the Village Attorney has recommended waiving introduction in order to meet the statutory deadline for amending the boundaries.

Attorney Janega confirmed for the Council that the excluded properties had made their payments and signed waivers.

There being no further questions or comments, Trustee Johnson, seconded by Trustee Spinney, moved to waive introduction of Ordinance M-9-2011, excluding 1004 Elm Street, 1005 Oak Street and 1050 Elm Street from proposed SSA #4. By roll call vote, the motion carried. Ayes: Trustees Braun, Greable, Kates, Johnson, Rintz and Spinney. Nays: None. Absent: None.

Trustee Johnson, seconded by Trustee Spinney, moved to adopt Ordinance M-9-2011. By roll call vote, the motion carried. Ayes: Trustees Braun, Greable, Kates, Johnson, Rintz and Spinney. Nays: None. Absent: None.

- ii) Ordinance M-10-2011: Amending Boundaries of Special Service Area #5 – Pavement and Stormwater Improvements to the Public Alley Bounded by Elm-Oak-Rosewood-Glendale – Introduction/Adoption. President Tucker announced that the subject ordinance would delete two properties from SSA #5, as both parcels are at the edge of the proposed SSA and do not use alley access. She explained that at the public hearing held at the June 7<sup>th</sup> Council Meeting, the Council agreed to exclude these properties and to cut their share of costs in half, on the condition that the owners make an up-front, lump-sum payment. She concluded that the Village Attorney has recommended waiving introduction in order to meet the statutory deadline for amending the boundaries

There being no questions or comments, Trustee Johnson, seconded by Trustee Spinney, moved to waive introduction of Ordinance M-10-2011, excluding 1110 Elm Street and 1111 Oak Street from proposed SSA #5. By roll call vote, the motion carried. Ayes: Trustees Braun, Greable, Kates, Johnson, Rintz and Spinney. Nays: None. Absent: None.

Trustee Rintz, seconded by Trustee Spinney, moved to adopt Ordinance M-10-2011. By roll call vote, the motion carried. Ayes: Trustees Braun, Greable, Kates, Johnson, Rintz and Spinney. Nays: None. Absent: None.

b) Ordinance M-8-2011: Zoning Variation – 933 Tower Road – Introduction.

Mr. D’Onofrio reviewed this request for a front yard setback variation to construct a pergola, which would result in a front yard setback variation of 57.32%. He noted that the ZBA unanimously recommended approval of the request and that no neighbors have objected to the requested variation.

There being no questions or comments from the audience or the Council, Trustee Johnson, seconded by Trustee Spinney, moved to introduce Ordinance M-8-2011. By voice vote, the motion carried.

7) Public Comment and Questions.

8) Old Business.

- a) Christopher Burke Stormwater Study Follow-up. Mr. Saunders reported that the evening’s presentation was a follow-up to a 2009 flood risk reduction study commissioned by the Council after parts of the Village experienced severe flooding in late 2008. He noted that the Council adopted a stormwater management strategy to deal with the questions of: (i) how to have a community-wide discussion about the scope of the problem; (ii) how to best remedy it; and (iii) what mechanisms are available for funding the improvements.

Mr. Saunders explained that in 2010, the Council commissioned a survey to examine the parts of the Village not studied in the 2009 survey, so that it could consider drainage on a Village-wide basis. He said the two reports together give a wide array of options to reduce flooding throughout the Village and he pointed out that the policy issues for the Council to consider include: (i) how to rank the projects; (ii) whether to do all or some of them; and (iii) how they should be funded. He pointed out that there is no way to stop flooding in the Village, but that steps can be taken to improve stormwater flow to protect against a 10-year rainfall event.

Thomas Burke, of Christopher B. Burke Engineering, Ltd. (CBBEL), began his presentation of the results and recommendations of CBBEL’s 2010 flood risk reduction study by summarizing rainfall data for northeastern Illinois from the early 1900’s to the present. He noted that the data was used to develop hydrologic models and develop solutions to protect the problem areas against a 10-year storm event. He said currently there is protection in these areas against a 2- or 3-year event, which is clearly not sufficient.

Mr. Burke identified the study areas:

- Cherry St. Outlet
- Spruce St. Outlet
- Ravine Area
- Greenwood Ave. Area
- Provident Ave. Area

He began a review of the study areas, describing the type of flooding that occurs in each area and giving CBBEL's recommendations for alleviating the problem, along with the cost.

At approximately 9:00 p.m., as Mr. Burke was reviewing the Greenwood Avenue Study Area, Police Commander James Christensen evacuated the meeting attendees, because severe weather was approaching.

At 9:30 p.m., the Council and audience were allowed back into the meeting room. President Tucker announced that the meeting would be adjourned so that staff could deal with the problems left in the wake of the storm.

- 9) New Business. None.
- 10) Reports. No reports.
- 11) Appointments. None.
- 12) Executive Session.
- 13) Adjournment. Trustee Spinney, seconded by Trustee Johnson, moved to adjourn the meeting. By roll call vote, the motion carried. Ayes: Trustees Braun, Greable, Kates, Johnson, Rintz and Spinney. Nays: None. Absent: None. The meeting adjourned at 9:33 p.m.

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Recording Secretary

**MINUTES  
WINNETKA VILLAGE COUNCIL  
REGULAR MEETING  
July 5, 2011**

(Approved: xx)

A record of a legally convened meeting of the Council of the Village of Winnetka, which was held in the Public Safety Building on Tuesday, July 5, 2011, at 7:30 p.m.

- 1) Call to Order. President Tucker called the meeting to order at 7:32 p.m. Present: Trustees Arthur Braun, Gene Greable, Bill Johnson, Richard Kates, and Jennifer Spinney. Absent: Trustee Chris Rintz. Also present: Village Manager Robert Bahan, Village Attorney Katherine Janega, Director of Community Development Michael D’Onofrio, Assistant Director of Community Development Brian Norkus, Director of Public Works Steve Saunders and approximately six persons in the audience.
- 2) Pledge of Allegiance. President Tucker led the group in the Pledge of Allegiance.
- 3) Quorum.
  - a) July 12, 2011, Study Session. All of the Council members present, except Trustee Braun, indicated that they expected to attend. President Tucker indicated that she would not be present.
  - b) July 19, 2011, Regular Meeting. All of the Council members present indicated that they expected to attend.
- 4) Approval of the Agenda. Trustee Johnson, seconded by Trustee Spinney, moved to approve the Agenda. By roll call vote. the motion carried. Ayes: Trustees Braun, Greable, Kates, Johnson, Rintz and Spinney. Nays: None. Absent: None.
- 5) Consent Agenda
  - a) Village Council Minutes.
    - i) May 24, 2011, Rescheduled Study Session.
    - ii) June 3, 2011, Special Study Session.
  - b) Warrant Lists Nos. 1707 and 1708. Approving Warrant List No. 1707 in the amount of \$594,013.53, and Warrant List No. 1708 in the amount of \$587,930.67.
  - c) Ordinance M-8-2011: Zoning Variation – 933 Tower Road – Adoption. This Ordinance, introduced at the June 21<sup>st</sup> Council Meeting, approves a zoning variation from the front yard setback requirements to permit the construction of a pergola within the required front yard.
  - d) Resolution R-25-2011: Final Approval, McGregor Consolidation of 627 and 633 Sheridan Road into a Single Lot – Adoption. This Resolution grants final approval of McGregor’s Consolidation, a consolidation of the lots at 627 and 633 Sheridan Road that is a fully conforming consolidation that will reverse a mid-1950’s lot division and restore the original lot configuration, by combining an irregularly shaped lot on the east side of Sheridan Road with the lake front flag lot behind it.

- e) Certificate of Appropriateness: 64 Green Bay Road (Michael). Approving the issuance of a Certificate of Appropriateness for the building and site alterations at 64 Green Bay Road (Restaurant Michael), subject to installation of alley directional signage consistent with the Village Engineer's June 28, 2011, memorandum.
- f) Certificate of Appropriateness: 80 Green Bay Road (Land Rover). Approving the issuance of a Certificate of Appropriateness for the building and site alterations at 80 Green Bay Road (Land Rover Winnetka), subject to future Design Review approval of sign modifications.
- g) Bid 11-021: 2011 Dutch Elm Disease Control Program. Awards the bid for the 2011 Dutch Elm Disease Control Program to Sunrise Tree Care for an amount not to exceed \$28,470.

Trustee Johnson, seconded by Trustee Braun, moved to approve the foregoing items on the Consent Agenda by omnibus vote. By roll call vote, the motion carried. Ayes: Trustees Braun, Greable, Kates, Johnson, and Spinney. Nays: None. Absent: Trustee Rintz.

- 6) Ordinances and Resolutions. None.
- 7) Public Comment and Questions.
- 8) Old Business. None.

- a) Policy Direction: Liquor Code Amendment. Attorney Janega reviewed her Agenda Report regarding the Village's enforcement practices for unpaid utility bills and the impact of such unpaid bills on eligibility for a Village liquor license. She explained that at present the Village Code, read as a whole, implicitly requires continuing compliance but there is no specific provision explicitly stating that the loss of eligibility for a license during the term of the license is grounds for the termination of that license. She went on to identify relevant policy issues and outline possible Village Code amendments for Council's consideration. She then responded to questions from the Trustees.

At the conclusion of the discussion, Ms. Janega was directed to return to the Council with a combination of amendments to Title 5 to address the issue.

10) New Business.

11) Reports

- a) Village President. President Tucker commented on the Fourth of July festivities and thanked everyone for their contributions.
- b) Trustees. None.
- c) Attorney. None.
- d) Manager. Manager Bahan expressed thanks to Village staff for their excellent response to the latest storm.

10) Appointments.

- a) President Tucker announced the appointment of Tom Eilers to the Business Community Development Commission for a full term, effective immediately. Trustee Braun, seconded by Trustee Kates, moved to approve. By voice vote, the motion carried.

- b) President Tucker announced the appointment of Mike Leonard to the Business Community Development Commission for a full term, effective immediately. Trustee Spinney, seconded by Trustee Johnson, moved to approve. By voice vote, the motion carried.
  - c) President Tucker announced the appointment of Beth Ann Papoutsis to the Landmark Preservation Commission to complete the term of George Pappas, effective immediately. Trustee Johnson, seconded by Trustee Spinney, moved to approve. By voice vote, the motion carried.
  - d) President Tucker announced the appointment of DRB member John Swierk to serve as Chair, to replace Gary Frank, effective immediately. Trustee Johnson, seconded by Trustee Braun, moved to approve. By voice vote, the motion carried.
  - e) President Tucker announced the appointment of Peggy Stanley to the Design Review Board effective immediately to replace Gary Frank, whose term expired. Trustee Spinney, seconded by Trustee Kates, moved to approve. By voice vote, the motion carried.
- 12) Executive Session. Trustee Johnson moved to adjourn into Executive Session to discuss collective bargaining and employee matters, pursuant to Sections 2(c)(2) and 2(c)(1) respectively, of the Illinois Open Meetings Act. Trustee Braun seconded the motion. By roll call vote, the motion carried. Ayes: Trustees Braun, Greable, Kates, Johnson, and Spinney. Nays: None. Absent: Trustee Rintz. The Council adjourned into Executive Session at 8:15 p.m.
- The Council reconvened into Regular Session at 8:51 p.m. Present: President Tucker, Trustees Braun, Greable, Kates, Johnson, Rintz and Spinney. Nays: None. Absent: None. Also present: Village Manager Rob Bahan and Village Attorney Katherine Janega.
- 13) Adjournment. Trustee Kates, seconded by Trustee Braun, moved to adjourn the meeting. By roll call vote, the motion carried. Ayes: Trustees Braun, Greable, Kates, Johnson, Rintz and Spinney. Nays: None. Absent: None. The meeting adjourned at 8:52 p.m.

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Recording Secretary

## AGENDA REPORT

SUBJECT:           **Warrant Lists Nos. 1711 and 1712**

PREPARED BY:     Robert Bahan, Village Manager

DATE:              July 29, 2011

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Warrants Lists Nos. 1711 and 1712 are enclosed in each Council member's packet.

**Recommendation:** Consider approving Warrants Lists Nos. 1711 and 1712.

## AGENDA REPORT

**SUBJECT:**                               **Resolution R-27-2011 – Approving the Plat of Dedication for the Trapp Lane Right-of-Way**

**PREPARED BY:**                       Steven M. Saunders, Director of Public Works/Village Engineer  
Katherine S. Janega, Village Attorney

**REF:**                                       November 18, 2008                       Council Study Session  
January 1, 2009                           Council Study Session  
March 3, 2009                           Council Meeting, pp. 91 – 101  
April 6, 2010                            Council Agenda, pp. 88 – 105  
April 20, 2010                           Council Agenda, pp. 27 – 35  
May 18, 2010                            Council Agenda, pp. 217 – 226  
July 20, 2010                            Council Agenda, pp. 19 – 51  
June 7, 2011                             Council Agenda, pp. 48 -51

**DATE:**                                    July 29, 2011

Resolution R-27-2011 is the last formal step in the project to improve Trapp Lane and convert it from a private road to a public street under the Village’s jurisdiction.

### **Background**

The project had its genesis in 2008, when residents of Trapp Lane requested that the Village work with them to take over jurisdiction of Trapp Lane, a private street maintained by the Trapp Lane homeowners association. The Trapp Lane homeowners expressed a desire to solve or minimize several ongoing problems with their roadway, and had come to the general conclusion that dedication of the roadway would be the best way to accomplish this. The problems articulated by the homeowners included:

1. Deteriorated pavement conditions, despite occasional repairs made by the Village at the request and expense of the Trapp Lane residents.
2. A private storm sewer system consisting of undersized metal culvert pipe that is at the end of its useful life, requires frequent maintenance, and results in drainage problems after even modest rains.
3. Frustration over construction projects, because, as is often the case with homeowners associations that are responsible for the private street, storm sewers, and right-of-way, the association is not adequately equipped to manage the access, restoration, and generally disruptive effects of major construction projects. While the Village can, and does, use the occupancy process to require builders to effectively restore damaged or disturbed streets, parkways, and other property, the private nature of this property places the ultimate responsibility for these assets, and acceptance of such repairs, with the homeowners association. In addition, when a builder wishes to connect to a storm sewer,

to satisfy the Village's drainage requirements, the Village does not have the final authority to permit connection to a private storm sewer system.

### **Description of the Trapp Lane Project**

On March 3, 2009, after discussing the issue on several occasions, the Village Council directed staff to proceed with design and engineering to bring the roadway and storm sewer system of Trapp Lane up to Village standards, with costs split evenly between the Village and the Trapp Lane residents, so that Trapp Lane could be dedicated to the Village as a public street.

Village staff then held several meetings with Trapp Lane homeowners to develop an engineering design that would carry out the Council's policy direction, dedicate the road back to the Village, not create any new zoning restrictions or nonconformities, and meet the Village's engineering and construction standards for roadways and storm sewers. Through continuing work with the Village Engineer, the Trapp Lane homeowners have agreed on (i) the scope of reconstruction needed to upgrade the roadway to Village standards, (ii) the layout and location of the right-of-way and easements to be dedicated to the Village, (iii) the Village's role as coordinating agency for the project, and (iv) the preference for a Special Service Area as a means of funding the homeowners contribution to the cost.

The entire project consists of the following:

1. Paving of new roadway. The existing private roadway is 17 feet wide, and is contained in a 30-foot wide easement. Since all of the lot areas and zoning setbacks are measured with respect to the existing easement lines, the dedicated public right-of-way has been drawn to match the existing 30-foot easement, so there will be no zoning changes or nonconformities as a result of the dedication. In keeping with the Village's policy, which requires an aggregate width of 50 feet, the balance of the land needed to reach that aggregate width is dedicated in the form of utility easements. The existing deteriorated pavement is 17 feet wide. To meet the Village's pavement standards, the existing pavement will be completely excavated and replaced. Staff has proposed a newly reconstructed roadway with a width of 19 feet.
2. Storm drainage improvements. In 2002, the Village completed a drainage study of the drainage area that includes Trapp Lane. In addition to recommending several public storm sewer improvements, which have been constructed, the study recommendations included some significant stormwater drainage improvements on Trapp Lane. Those improvements will be coordinated with the reconstruction of the roadway.

After several meetings over the summer and fall, by December 2009, all 20 property owners provided the Village with signed Agreements in Principle Concerning the Reconstruction and Public Dedication of Trapp Lane. Each of the 20 property owners agreed (i) to dedicate the necessary public right-of-way and easements to the Village to make Trapp Lane a public street, and (ii) to pay 50% of the project cost via a Special Service Area.

On July 20, 2010, following the requisite notice and public hearing, the Village Council passed Ordinance M-13-2010, establishing the Trapp Lane Special Service Area. Contracts were awarded for the work at the June 7, 2011, Council meeting.

**Plat of Dedication**

The formal mechanism for establishing a public right-of-way is for the owners of the property in question to prepare and sign a plat of dedication, and for the Village, as the receiving entity, to adopt a resolution accepting that dedication. The attached Plat effectuates the dedication of the right-of-way and easements, as described above.

The dedication process is analogous to the subdivision process, since rights-of-way are usually dedicated in the course of the initial development of property. Therefore, the Plat of Dedication was considered by the Plan Commission at its June 26, 2011, meeting. The members then present unanimously recommended that the plat be approved.

Council approval of the Plat of Dedication is the final action to be taken before construction can begin. The attached Resolution R-27-2011 approves the Plat of Dedication and accepts the dedicated right-of-way as part of the Village's public street system.

**Recommendation:**

- 1) Consider adoption of Resolution R-27-2011, approving the Plat of Dedication of the Trapp Lane Right-of-Way

**RESOLUTION NO. R-27-2011**

**A RESOLUTION  
APPROVING AND ACCEPTING  
PLAT OF DEDICATION  
DEDICATING TRAPP LANE  
AS A PUBLIC STREET IN THE VILLAGE OF WINNETKA**

**WHEREAS**, the Village of Winnetka (“Village”) is a home rule municipality in accordance with Article VII, Section 6 of the Constitution of the State of Illinois of 1970, pursuant to which it has the authority, except as limited by said Section 6 of Article VII, to exercise any power and perform any function pertaining to the government and affairs of the Village; and

**WHEREAS**, the Council of the Village of Winnetka (“Village Council”) find that establishing standards for the use, development and subdivision of land within the Village is a matter pertaining to the affairs of the Village; and

**WHEREAS**, Trapp Lane is a private street in the Village of Winnetka, formed by easements dedicated by the owners of the properties abutting Trapp Lane, from the west side of Hibbard Road westward to the west terminus of Trapp Lane on the west (“Trapp Lane Road Easements”), which properties are known by the following permanent property index numbers (“PIN”) and the approximate common street locations described below:

<b>P.I.N.</b>	<b>STREET ADDRESS</b>
05-18-402-073	1274 Trapp Lane
05-18-402-056	1279 Trapp Lane
05-18-402-072	1284 Trapp Lane
05-18-402-040	1294 Trapp Lane
05-18-402-054	1299 Trapp Lane
05-18-402-039	1304 Trapp Lane
05-18-402-053	1309 Trapp Lane
05-18-402-049	1314 Trapp Lane
05-18-402-052	1319 Trapp Lane
05-18-402-048	1324 Trapp Lane
05-18-402-051	1329 Trapp Lane
05-18-402-047	1334 Trapp Lane
05-18-402-050	1339 Trapp Lane
05-18-402-076	1345 Trapp Lane

05-18-402-046	1350 Trapp Lane
05-18-402-075	1360 Trapp Lane
05-18-402-074	1368 Trapp Lane
05-18-402-043	1370 Trapp Lane
05-18-402-042	1372 Trapp Lane
05-18-402-077	1385 Trapp Lane

and

**WHEREAS**, the owners of the properties that underlie and adjoin the Trapp Lane Road Easements have submitted a request to the Village, seeking to dedicate Trapp Lane to the Village as a public right-of-way; and

**WHEREAS**, pursuant to Village policy, the owners of the properties underlying and adjoining the Trapp Lane Road Easements have agreed to pay for one-half of the cost of (i) the construction of a storm sewer, (ii) the reconstruction and repaving of Trapp Lane, (iii) the construction of a cul-de-sac at the terminus of Trapp Lane and (iv) the construction of related appurtenances (collectively, the “Trapp Lane Improvements”); and

**WHEREAS**, on July 20, 2010, following the requisite public notices and hearing, the Village Council passed Ordinance M-13-2010, establishing Special Service Area No. 3 (“SSA No. 3”), to provide for the construction and financing of the Trapp Lane Improvements; and

**WHEREAS**, SSA No. 3 is a single family residential area consisting of the properties lying along Trapp Lane; and

**WHEREAS**, SSA No. 3 is intended to improve stormwater drainage to the Area and to upgrade Trapp Lane to Village standards so that Trapp Lane, which is currently a private roadway, can be dedicated to the Village as a public right-of-way; and

**WHEREAS**, on June 7, 2011, the Village Council approved contracts for the construction of the Trapp Lane Improvements; and

**WHEREAS**, on July 26, 2011, on due notice thereof, the Plan Commission considered a proposed Plat of Dedication for the Trapp Lane right-of-way, prepared by Daniel Creaney Company, Inc., titled “Plat of Dedication,” bearing reference to Job No. 6581 A and dated \_\_\_\_\_, 2011, a copy of which is attached hereto as Exhibit A, (“Plat of Dedication”) and is incorporated herein by reference; and

**WHEREAS**, by the unanimous vote of the members present on July 26, 2011, the Plan Commission voted to recommend approval of said Plat of Dedication; and

**WHEREAS**, the properties in SSA No. 3 are located in the R-2 Single-Family Residential Zoning District provided in Chapter 17.24 of the Winnetka Zoning Ordinance, Title 17 of the Winnetka Village Code; and

**WHEREAS**, approval and acceptance of the proposed Plat of Dedication will not create any new zoning nonconformities; and

**WHEREAS**, the Plat of Dedication has been reviewed by Community Development Staff and the Village Engineer, who have concluded that said Plat contains all required easements and signature blocks, and have recommended that it be approved; and

**WHEREAS**, the Village Council find and determine that the approval and acceptance of the Plat of Dedication will benefit both the Village and the properties in SSA No. 3 by providing improved pavement, improved storm drainage and improved traffic enforcement; and

**WHEREAS**, the Plat of Dedication in all other respects meets the requirements of Title 16 of the Winnetka Village Code and all other applicable ordinances.

**NOW, THEREFORE**, be it resolved by the Council of the Village of Winnetka as follows:

**SECTION 1:** The foregoing recitals are hereby incorporated as the findings of the Council of the Village of Winnetka, as if fully set forth herein.

**SECTION 2:** The plat prepared by Daniel Creaney Company, Inc., titled "Plat of Dedication" bearing reference to Job No. 6581 A and dated \_\_\_\_\_, 2011, a copy of which is attached hereto as Exhibit A, is hereby accepted and approved, subject to the following conditions:

- A. The handwritten notations shall be incorporated into the final plat for signature; and
- B. The owners of all of the parcels listed in SSA No. 3 and incorporated into said Plat of Dedication shall sign said Plat in the locations specified.

**SECTION 3:** Upon acceptance of the fully executed Plat of Dedication, Trapp Lane shall be included in the street system of the Village of Winnetka and the Village of Winnetka shall thereafter have full jurisdiction over said Trapp Lane right-of-way.

**SECTION 4:** This Resolution is adopted by the Council of the Village of Winnetka in the exercise of its home rule powers pursuant to Section 6 of Article VII of the Illinois Constitution of 1970.

**SECTION 5:** This Resolution shall take effect immediately upon its adoption.

**ADOPTED** this 2<sup>nd</sup> day of August, 2011, pursuant to the following roll call vote:

AYES: \_\_\_\_\_

NAYS: \_\_\_\_\_

ABSENT: \_\_\_\_\_

Signed:

\_\_\_\_\_  
Village President

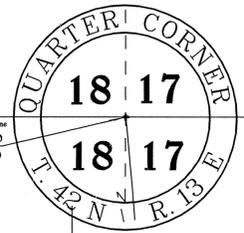
Countersigned:

\_\_\_\_\_  
Village Clerk

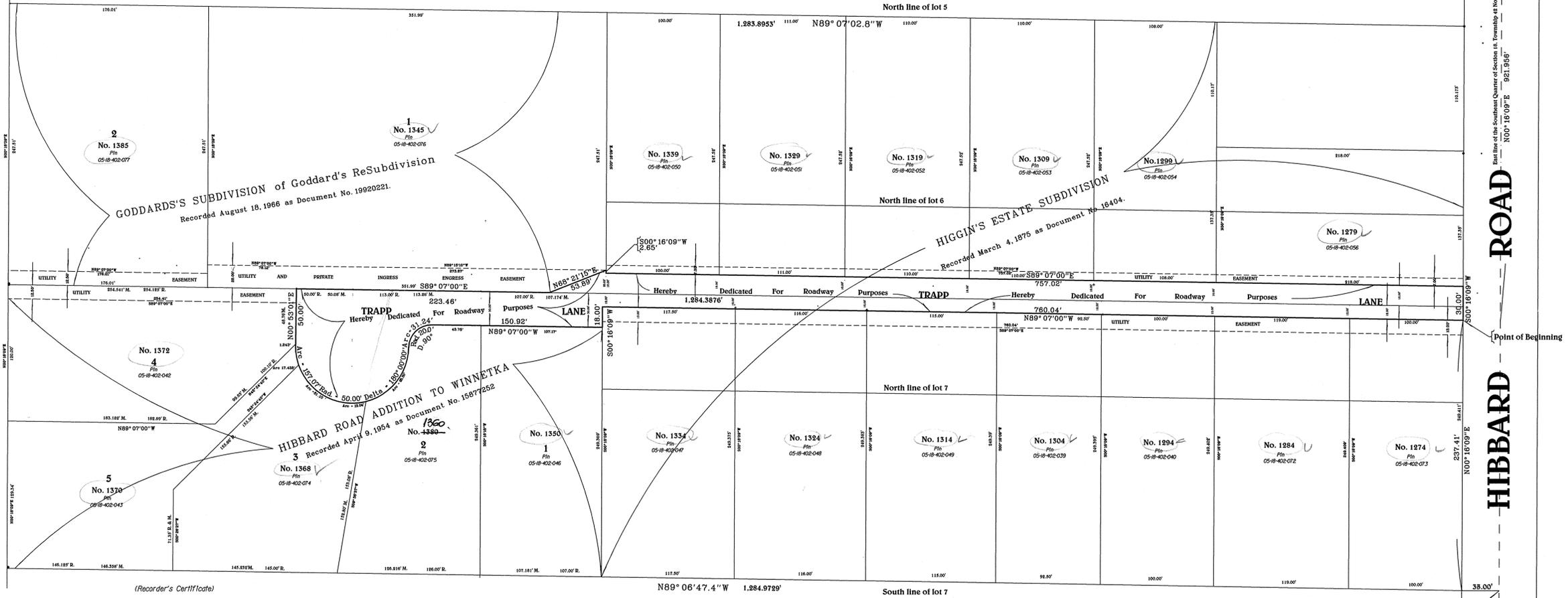
# PLAT OF DEDICATION

That of the Southeast Quarter of Section 18, Township 42 North, Range 13 East, of the Third Principal Meridian taken as a tract, more particularly described as follows:  
 Commencing at the Southeast Corner of Lot 7 in Higgin's Estate Subdivision recorded March 4, 1875 Document No. 16404; thence North 89 degrees, 06 minutes, 47 seconds West, 33.00 feet along the South line of said lot to the West right of way line of Hibbard Road; thence North 00 degrees, 16 minutes, 09 seconds East, 327.41 feet along said line to the point of beginning; thence North 89 degrees, 07 minutes, 00 seconds West, 760.04 feet; thence South 00 degrees, 16 minutes, 09 seconds West, 18.00 feet; thence N 89 degrees, 07 minutes, 00 seconds West, 150.92 feet; thence West along a tangential curve concave to the South, radius 30.00 feet, central angle 90 degrees, 00 minutes, 00 seconds, 31.24 feet to a point of reverse curvature; thence along a 50.00 foot radius curve concave to the North, central angle 180 degrees, 00 minutes, 00 seconds, 157.07 feet; thence North 00 degrees, 53 minutes, 01 seconds East, 50.00 feet; thence South 89 degrees, 07 minutes, 00 seconds East, 223.46 feet; thence North 68 degrees, 21 minutes, 15 seconds East, 53.89 feet; thence South 00 degrees, 16 minutes, 09 seconds West, 2.65 feet; thence South 89 degrees, 07 minutes, 00 seconds East, 757.02 feet to the West right of way line of Hibbard Road; thence along said line South 00 degrees, 16 minutes, 09 seconds West, 30.00 feet to the point of beginning.

Illinois State Plane Coords, East Zone  
 N 1.985,999.4680  
 E 1.142,151.8840



Scale:  
 1" = 50.0'



(Individual Right-of-Way Areas)

Address	Sq. Footage	Acres
1279 Trapp Lane	3,994.0790	(0.0900 Acres)
1299 Trapp Lane	1,844.0417	(0.0446 Acres)
1309 Trapp Lane	1,980.0833	(0.0454 Acres)
1319 Trapp Lane	1,980.1284	(0.0454 Acres)
1329 Trapp Lane	1,998.2297	(0.0458 Acres)
1339 Trapp Lane	1,800.1639	(0.0413 Acres)
1345 Trapp Lane	516.2715	(0.0118 Acres)
1368 Trapp Lane	4,465.5038	(0.1024 Acres)
1380 Trapp Lane	6,452.7495	(0.1481 Acres)
1350 Trapp Lane	3,215.1859	(0.0738 Acres)
1334 Trapp Lane	1,410.2473	(0.0323 Acres)
1324 Trapp Lane	1,392.1919	(0.0319 Acres)
1314 Trapp Lane	1,580.2522	(0.0361 Acres)
1304 Trapp Lane	1,110.1466	(0.0254 Acres)
1294 Trapp Lane	1,194.5675	(0.0274 Acres)
1284 Trapp Lane	1,428.1912	(0.0327 Acres)
1274 Trapp Lane	1,900.1700	(0.0275 Acres)

STATE OF ILLINOIS S.S.  
 COUNTY OF COOK  
 This instrument number \_\_\_\_\_ was filed for record in the Recorder's Office of Cook County, Illinois.  
 Dated this \_\_\_\_\_ day of \_\_\_\_\_, 2011.  
 At \_\_\_\_\_ o'clock \_\_\_\_\_ M.  
 By: \_\_\_\_\_  
 County Recorder

(City Treasurer's Certificate)  
 STATE OF ILLINOIS S.S.  
 COUNTY OF COOK  
 I find that no tax, liens or special assessments are unpaid and due against the land described herein.  
 Dated this \_\_\_\_\_ day of \_\_\_\_\_, 2011.  
 By: \_\_\_\_\_  
 City Treasurer

(Mayor and City Council Certificate)  
 STATE OF ILLINOIS S.S.  
 COUNTY OF COOK  
 Approved and accepted by the Mayor and City Council of the City of Winnetka, Cook County, Illinois at a Public Meeting held:  
 This \_\_\_\_\_ day of \_\_\_\_\_, 2011.  
 By: \_\_\_\_\_  
 Mayor  
 Attest: \_\_\_\_\_  
 City Clerk

(County Clerk Certificate)  
 STATE OF ILLINOIS S.S.  
 COUNTY OF COOK  
 I, \_\_\_\_\_ County Clerk of Cook County, Illinois do hereby certify that there are no delinquent taxes, no unpaid special taxes, no unpaid forfeited taxes and no redeemable tax sales against any of the land included in the plat hereon.  
 I further certify that I have received all statutory fees in connection with the plat hereon drawn.  
 Given under my hand and seal of the County Clerk of Cook County at Chicago, Illinois, this \_\_\_\_\_ day of \_\_\_\_\_, A.D., 2011.  
 By: \_\_\_\_\_  
 County Clerk

(Surveyor's Certificate)  
 STATE OF ILLINOIS S.S.  
 COUNTY OF COOK  
 I, Jeffrey D. Carlson, Illinois Professional Land Surveyor, do hereby certify that the plat as hereon drawn is a correct representation of the property described in the foregoing caption.  
 Furthermore, I designate the Village of Winnetka, Cook County, Illinois, to act as my agent for the purposes of recording this document.  
 Dated this \_\_\_\_\_ day of \_\_\_\_\_, 2011.  
 By: \_\_\_\_\_  
 Illinois Professional Land Surveyor  
 License No. 35002538

(Notary Certificate)  
 STATE OF ILLINOIS S.S.  
 COUNTY OF COOK  
 I, \_\_\_\_\_ Notary Public in and for said County in the State aforesaid do hereby certify that personally known to me to be the same person whose names are subscribed to the foregoing instrument, and appeared before me this day in person, acknowledge that \_\_\_\_\_ signed and delivered the annexed Plat as \_\_\_\_\_ own free and voluntary act for the uses and purposes therein set forth.  
 Given under my hand and Notarial Seal this \_\_\_\_\_ day of \_\_\_\_\_ A.D. 2011.  
 Notary Public

(Trustee's Certificate)  
 STATE OF ILLINOIS S.S.  
 COUNTY OF COOK  
 Approved by the President and Board of Trustees of Village of Winnetka, in Cook County, Illinois this \_\_\_\_\_ day of \_\_\_\_\_ A.D. 2011.  
 Signed \_\_\_\_\_  
 Village President  
 Attest \_\_\_\_\_  
 Village Clerk

STATE OF ILLINOIS S.S.  
 COUNTY OF COOK  
 I, Jeffrey D. Carlson, do certify that I have surveyed the property as described above for the purpose of dedicating the same for public road purposes and that the Plat hereon drawn is a correct representation of said survey. Dimensions are shown in feet and decimal parts thereof and are corrected to a temperature of 62 degrees Fahrenheit.  
 I further certify that the property shown on the plat hereon drawn is within the Village of Winnetka, Illinois, which has adopted a Village Plan and is exercising the Special Powers authorized by division 12 of article 11 of the municipal code, as heretofore and hereafter amended.  
 Dated this \_\_\_\_\_ day of \_\_\_\_\_, A.D. 2011.  
 At Northbrook, Illinois.  
 Illinois Professional Land Surveyor No. 2538  
 My license expires November 30, 2012

NOTE:  
 Bearings are based on G.P.S. system.  
 Illinois State Plane Coords, East Zone.

**DANIEL CREANEY COMPANY**  
 CONSULTING CIVIL ENGINEERS  
 450 SKOKIE BLVD. SUITE 105  
 NORTHBROOK, ILLINOIS  
 (847) 480 - 5757  
 FAX (847) 480 - 7209

BOOK: \_\_\_\_\_  
 JOB NO.: **6581-A**  
 SHEET **1** OF **3**

This Plat submitted by and return Plat to:  
 Name: Village of Winnetka Department of Community Development  
 Address: 510 Greenbay Road  
 City: Winnetka State: Illinois Zip: 60093





## AGENDA REPORT

SUBJECT: State Bid - Salt Purchase

PREPARED BY: Steven M. Saunders, Director of Public Works/Village Engineer

DATE: July 26, 2011

The Village of Winnetka participates in the purchase of rock salt through the State of Illinois bid. This joint purchasing program provides municipalities the opportunity to use joint purchasing power with the State of Illinois to obtain lower prices for rock salt. The low bid for this program of \$67.39 per ton was submitted by Cargill Salt Company of North Olmsted, Ohio. Last year's contract price was also \$67.39 per ton. This year's price represents no increase from last year, and a 54% decrease from the spiked prices of 3 years ago. Historical prices (below) varied between \$30 and \$40 per ton prior to the 2008-2009 spike.



Based upon prior years' experience, staff estimates that 1,440 tons of rock salt will be purchased this winter season. At this year's unit price, 1,440 tons of rock salt would cost \$97,042. The FY 2011-12 budget (account 10-30-540-141) contains a total including contingency of 121,250 for the purchase of rock salt. According to the terms of the joint purchasing contract, the Village is obligated to purchase 100% of its estimated amount, or 1,440 tons (\$97,042) The contract further stipulates in the event of a severe winter the contractor is obligated to provide up to 120% of order, or 1,728 tons (\$116450), at the bid price.

**Recommendation:**

Consider the purchase of rock salt at \$67.39/ton from Cargill Salt, the State of Illinois low bidder, through the State of Illinois Cooperative purchasing program.

## AGENDA REPORT

**SUBJECT:** R-28-2011 – A Resolution Waiving Permit Fees  
for Storm Repairs

**PREPARED BY:** Katherine S. Janega, Village Attorney

**DATE:** July 29, 2011

The Village Manager has conferred with staff to determine ways that the Village can assist residents in recovering from the damage caused by last weekend's storm and flood.

Public Works Director Steve Saunders quickly recommended that the Village have a special, free refuse collection of flood-damaged materials. The Public Works Department began those collections on Wednesday, July 27.

In addition, because much of the repair and restoration work will require building and electrical permits, the Director of Community Development has recommended a streamlined permit process, coupled with a waiver of fees. The recommendations are described in detail in the attached memorandum from Community Development Director Mike D'Onofrio to Village Manager Rob Bahan.

Because the permit fee resolution adopted in March does not include authorization for large-scale waivers, it is necessary to authorize the waivers by resolution. To that end, the attached Resolution R-28-2011 grants the fee waiver and authorizes Village staff to establish the procedures.

### **Recommendation:**

- 1) Consider adoption of Resolution R-28-2011, waiving permit and inspection fees for repair and restoration of storm and flood damaged property.

# Memo

To: Rob Bahan, Village Manager  
From: Mike D'Onofrio, Director of Community Development  
Date: July 29, 2011  
Re: Flood Repair Permits

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In light of the recent flooding Community Development is setting up a new procedure to deal with flood damage repairs. The procedure is aimed at issuing building permits as quickly as possible, while at the same time protecting homeowners from less than reputable contractors who prey on people during times like this.

Following is the procedure that CD will be implementing:

- Anyone proposing to do repair work must submit a building permit application, a plan, and a narrative description of the scope of work to be completed.
- Upon receipt of the above listed documents, CD will send a building inspector to the property to inspect existing conditions, as well as any demolition/removal work that has already taken place, in order to determine if the proposed scope of work addresses all the flood damage. This will allow us to make sure that: (1) the proposed work will repair all of the damage; (2) all damaged materials have or will be removed, i.e. insulation, drywall, etc. and, (3) allow the inspector to look at other items that may or may not have been damaged, i.e. water heaters, furnaces, etc. The goal is to have inspections done within 24 hours of receipt of the building permit application.
- Upon completion of the existing conditions inspection, CD will then issue the building permit once we verify that the contractors doing the work are licensed and bonded. Here again the bonding and licensing requirements, which we require for all permits, protects the homeowner in cases where work is not being done according to the building code.
- As is the case with all permits, as work is progressing and being completed building inspectors will inspect the work, including both rough and final inspections..

One issue of this new process is permit fees and what is the appropriate amount to be charged. Under a normal basement remodeling project, that might have a price tag of \$25,000, the building permit fee would be approximately \$1,000. As we discussed previously, it was thought that charging such a fee would just be adding to the woes of those who have just suffered significant losses. Also, if we were to charge the regular permit fee, it could serve as a deterrent to people even applying for a permit. Therefore, the best scenario is to waive the permit fee for flood damage repairs.

As an aside CD will track all the flood damage repair permits for location and cost of improvements, since this information may be of some use both now and in the future.

If you have any questions, please let me know.

**RESOLUTION NO. R-28-2011**

**A RESOLUTION  
AUTHORIZING THE WAIVER OF BUILDING AND CONSTRUCTION FEES  
FOR REPAIRS TO PROPERTIES  
DAMAGED IN THE STORMS OF JULY 2011**

**WHEREAS**, during the night of July 22-23, 2011, the Village of Winnetka was inundated with a record-breaking rainfall that dropped nearly 7 inches of rain in less than 6 hours, causing flash flooding and leaving many homes in need of repair from storm and flood damage; and

**WHEREAS**, in some instances, damages were exacerbated by rainfalls that occurred in the course of the following week; and

**WHEREAS**, the Council of the Village of Winnetka find that it is in the best interests of the Village and its residents to facilitate repairs and restoration by waiving permit and inspection fees for such work; and

**WHEREAS**, the Village of Winnetka is a home rule municipality in accordance with Article VII, Section 6 of the Constitution of the State of Illinois of 1970, pursuant to which it has the authority, except as limited by said Section 6 of Article VII, to exercise any power and perform any function pertaining to the government and affairs of the Village, including, but not limited to, the powers to regulate for the protection of the public health, safety and welfare; and

**WHEREAS**, the Council find that it is in the best interests of the Village and its residents that all matters pertaining to the regulation of building and construction activities within the Village of Winnetka, including but not limited to establishing fees for permits for such activities, are matters pertaining to the affairs of the Village.

**NOW, THEREFORE**, be it resolved by the Council of the Village of Winnetka as follows:

**SECTION 1:** The foregoing recitals are hereby incorporated as the findings of the Council of the Village of Winnetka, as if fully set forth herein.

**SECTION 2:** The fees established pursuant to Resolution R-9-2011 for building permit processing and review, and for inspection of construction activity, are hereby waived for all work required to repair properties damaged in the rain storms and flooding that occurred between July 22 and 29, 2011, provided that any applicant for such permit who seeks such a fee

waiver shall provide proof of eligibility for said waiver, in a form acceptable to the village, which may be in the form of an affidavit.

**SECTION 3:** The Village Manager is hereby authorized and directed to establish and implement a procedure for the waiver established in the foregoing section and for documenting the eligibility of permit applicants for such waiver.

**SECTION 4:** This Resolution is adopted by the Council of the Village of Winnetka in the exercise of its home rule powers pursuant to Section 6 of Article VII of the Illinois Constitution of 1970.

**SECTION 5:** This resolution shall be in full force and effect immediately upon its adoption..

**ADOPTED** this 2<sup>nd</sup> day of August, 2011, pursuant to the following roll call vote:

AYES: \_\_\_\_\_

NAYS: \_\_\_\_\_

ABSENT: \_\_\_\_\_

Signed:

\_\_\_\_\_  
Village President

Countersigned:

\_\_\_\_\_  
Village Clerk

## **AGENDA REPORT**

**SUBJECT:** **Report on July 22-23, 2011 Storm and Flood Event and Stormwater Management Strategies**

**PREPARED BY:** Robert M. Bahan, Village Manager  
Steven M. Saunders, Director of Public Works / Village Engineer  
Ed McKee, Finance Director  
Katherine S. Janega, Village Attorney

**DATE:** July 29, 2011

### **Introduction**

In the week since the rain storm that inundated the Village late Friday night and early Saturday morning on July 22 and 23, Village staff has focused on four key tasks: (1) to make sure that Winnetka's citizens received prompt and courteous assistance in dealing with the aftermath of the storm; (2) to take all necessary steps to compile and transmit information documenting the extent of damage so as to maximize opportunities for State and/or federal aid; (3) to provide information to residents as soon as it becomes available; and (4) to analyze the event so as to provide the Council and community with a full report of what transpired and what actions can be taken to reduce future risks of recurrence. This Agenda Report focuses on the fourth task.

### **Description of the Storm and How the Rainfall Was Managed**

#### **1. What happened?**

In the overnight hours of July 22-23, the Village of Winnetka was impacted by a significant rainfall that overwhelmed the Village's sewer systems and led to severe flash flooding and basement flooding throughout the Village. A Cook County Precipitation Network rain gauge located in southwestern Winnetka, which remotely records precipitation in 10-minute intervals, recorded 3.99 inches of rain between 11:00 p.m. and midnight on July 22, including 0.98 inches between 11:40 p.m. and 11:50 p.m. alone.

The heaviest rainfall occurred between 11:00 p.m. and 1:30 a.m., during which time 5.99 inches of rain fell. According to the County rain gauge, a total of 6.61 inches of rain fell by the time rain completely stopped at 10:00 a.m. Saturday morning. Preliminary data from a Winnetka Park District weather station located on the golf course indicated rainfall from the storm of nearly 7 inches. (See Attachment 1 for rainfall data.)

#### **2. How does our system work?**

With the exception of a narrow strip along and west of Green Bay Road, Winnetka is what is known as a separate-sewer community, meaning that there are two separate sewer systems. The storm sewer system collects stormwater runoff from streets and yards,

downspouts, and sump pump discharges, while the sanitary sewer system collects wastewater from interior plumbing systems.

The Village's storm sewers drain either to the Skokie River and its tributary, the East Diversion Ditch, or to Lake Michigan. Although the two watersheds are generally divided by the Union Pacific Railroad tracks, an area around North Shore Country Day School does drain east under the railroad towards Lake Michigan.

The Village's sanitary sewers drain to a network of intercepting sewers operated by the Metropolitan Water Reclamation District of Greater Chicago ("MWRD"). These intercepting sewers convey wastewater to the North Side Treatment Plant located near Howard Street and McCormick Boulevard in Skokie, where it is treated and discharged to the North Shore Channel and, ultimately, to the North Branch of the Chicago River.

### **3. What about the Wilmette Locks?**

If there is a most frequently asked question received by staff, it is: "Have the Wilmette Locks been opened yet?" or some variant thereof. The "locks" at Wilmette Harbor actually refers to a 32-foot gate mechanism that operates as a level control on the North Shore Channel. In its normal closed configuration, this gate prevents treated or partially treated sewage from flowing into Lake Michigan, instead directing wastewater and stormwater south into the North Branch of the Chicago River. When the gate is opened, a combination of wastewater and stormwater is directly discharged to Lake Michigan.

According to the MWRD, the primary purpose of opening this gate is to prevent overbank flooding on the North Shore Channel and the North Branch of the Chicago River, by allowing a second outlet for the channel. As reported in the Chicago Tribune, the gate was opened at approximately 2:20 a.m. on Saturday morning. An additional gate at Navy Pier was opened approximately one hour later. This was done to prevent serious overbank flooding along the Channel and the North Branch of the Chicago River.

**Opening the gate at the Wilmette Locks does not affect either the level of Lake Michigan or the level of the Skokie River, meaning that the Village's storm sewer systems are completely independent of this gate.** It is less clear whether this operation has any effect on the operation of the Village's sanitary sewer system.

### **4. What worked?**

The Village operates stormwater pumping stations at Tower Road, Sunview Lane, Ash Street, Mt. Pleasant Street, Evergreen Lane, and Winnetka Avenue. None of these pump stations lost electrical service during or after the storm, and based on staff observations and on pump hour meters (where equipped), each of the pump stations, with the exception of the Ash Street pump, functioned during and after the storm.

### **5. What didn't work?**

The area between Hibbard Road, Glendale Avenue, Oak Street, and Willow Road is tributary to a stormwater pump station located at Ash Street and Hibbard Road. Stormwater is

discharged to a control structure on the west side of Hibbard Road to drain into the Hibbard Road storm sewer, with an overflow accommodation to drain to Duke Child Field.

The pump station at Ash and Hibbard failed at some point during the storm when debris in the storm sewer system became clogged in the pump and jammed the impeller. The pump was reset, but continued to clog and had to be removed, manually cleaned, and reinstalled in the lift station. This operation took approximately 1 hour, and was completed by about 1:00 p.m. on Saturday. Once the pump was reinstalled, and because of the amount of water that had accumulated in the watershed, additional pumping capacity consisting of 6 portable pumps with discharge hose diameters ranging from 2 to 4 inches was employed. These 6 portable pumps were operated from about 3:00 p.m. on Saturday until about 1:00 a.m. Sunday morning, when the water level dropped sufficiently that the single underground pump could sufficiently drain the system.

## **6. Damage Data**

The Village received 219 emergency service calls during and immediately following the storm. These calls dealt with a variety of issues, including tree damage and power outages, but the vast majority of the calls were for flooding of streets and basements.

There was particularly widespread basement flooding as a result of the storm. Some basements flooded because sump pumps failed or were overwhelmed by the amount of water coming in, many basements flooded as a result of sanitary sewer backups, and other basements flooded directly, as a result of water overtopping foundations or flowing in through window wells.

A complete and accurate count may never be available; however, a count of the debris piles placed on the parkways on the Monday and Tuesday after the storm indicated 749 such piles. This is likely an undercount, given that piles were still being placed out on Friday, July 29, after the storm. (See Attachments 2 and 3 for location maps showing the location of emergency calls and of debris piles counted on Monday and Tuesday.)

## **Possible Engineering Solutions for Severe Rain Storms**

### **1. What type of system would be required to handle the recent storm?**

Christopher Burke Engineering was asked to perform a rough calculation of the detention volumes needed to accommodate a 100-year level of flood protection for just the northern and southern study areas in the 2009 assessment.

The 2009 study recommended constructing 10.4 acre-feet of detention located at Duke Child Field. To accommodate the 100-year storm, for both areas, a total of 101.6 acre-feet of storage are necessary, a nearly tenfold increase. In addition, larger conveyance systems would be required to move the water to the proposed detention facilities.

**2. How would the \$14.1 million improvements have handled the July 22-23 storm?**

The recommended improvements from the 2009 and 2011 Flood Risk Reduction Assessments were designed to alleviate flooding for up to the 10-year design storm event. The July 22-23 storm produced twice the rainfall depth used to design those recommended improvements.

Christopher Burke Engineering modeled the July 22-23 storm across the proposed improvements, assuming that all of the recommended improvements had been implemented, and determined that the improvements would have provided little flood reduction for this event. For example, Cherry and Berkeley, the two Greenwood areas, Pine east of Hibbard, Spruce east of Hibbard, the Sunset pedestrian walkway, Oak and Sheridan, the Ravines, the upper Provident areas, and the Winnetka underpass all would have flooded to within 0.3 feet (3.5 inches) of what occurred on July 22-23. Only Maple and Sheridan, and the Tower Manor area (assuming these improvements were added to the recommendations) showed significant reductions.

**3. What has already been done?**

Since 1985, the Village has invested significantly in storm and sanitary sewer improvements. In 1985, the Village undertook a \$4 million+/- Sanitary Sewer Rehabilitation Program that resulted in correcting broken, leaking, and undersized sanitary sewers Village-wide through sewer replacement, lining, cross-connection elimination, and a new pumping facility at the bottom of the Sheridan Road Ravines to eliminate sewage overflows to the Lake. The Village has also performed multiple and ongoing sewer lining projects to restore and seal sanitary sewers using trenchless methods. The Village has also completed the following storm sewer improvements since 1994, at a cost of \$3,567,000:

Winnetka Ave Pump Station (1994)	\$505,000
Sub-area 8 Improvements (1995)	\$354,000
Hibbard Road Improvement (1998)	\$414,000
Spruce Street Outfall (2001)	\$118,000
Tower Road Improvements (2002)	\$551,000
Golf Course Improvements (2003-04)	\$416,000
Ravines Outfall (2004)	\$147,000
Sunview Lane Improvements (2005)	\$230,000
Tower Pump Station (2005)	\$50,000
Cherry Street Outfall (2005)	\$186,000
Ash Street Improvements (2008)	\$151,000
Spruce Street Improvements (2008)	\$445,000

## **Possible Next Steps**

Clearly, the question of the day is “Now what? What can we do to eliminate or reduce the chances of this happening again?”

### **1. Redirect Cost-Benefit Analysis.**

The Village has already engaged Christopher Burke to perform a Cost-Benefit Analysis of the recommended improvements to prioritize what should be done first, for a fee of \$14,800. Given what occurred last week, this analysis is no longer relevant, and Staff recommends that this contract be immediately re-directed to an analysis of the Sunset/DeWindt study area and the Northern Study area (Pine to Willow east of Hibbard) to identify possible improvements that would provide effective flood damage risk reduction for larger storms including the 25-year, 50-year, and 100-year rainfall events.

The deliverable of this contract would be a technical report and exhibits detailing flood conveyance and storage improvements to protect low-entry elevations within the selected watershed for the 25-year, 50-year, and 100-year events. Staff is identifying these two areas for the basic reason that these areas were inundated for the longest period of time, and to the greatest extent. This is not to say that other areas were not affected severely, but the magnitude and duration of flooding in these areas was extreme. This is the same reason why these two drainage areas were selected for the initial analysis after the 2008 flood event. A third area, the Greenwood area, could be included in this analysis for an additional \$2,000, and the Tower/Foxdale area could likewise be added for an additional \$3,000. Depending on the areas selected, the cost range for this work would be \$15,000 to \$19,000. Staff will provide a formal cost proposal for Council consideration at the August 2, Council meeting.

### **2. Identify and Pursue Open Space for Detention.**

It is anticipated that providing larger-scale flood protection will require significant storage of floodwaters, using all available open spaces. Unfortunately, all of the larger open spaces suitable for detention are owned by other governmental units, including New Trier High School (Duke Child Field), District 36 (Skokie-Washburne field), the Winnetka Park District (Skokie Playfield, Crow Island Park/Woods, Corwin Park), and the Cook County Forest Preserve.

While open space is very useful for stormwater detention, it also has other passive and active uses, and the landowning agencies have missions other than providing stormwater relief. The Village will need to engage in serious, direct, and ongoing dialogues with these agencies to either acquire or obtain usage rights to all suitable open space to construct stormwater detention facilities.

It is important to note that the \$14.1 million for the currently proposed project does not anticipate land-acquisition costs, which could be significant.

## **Options for Financing Stormwater Improvements**

As the Village evaluates the level of stormwater improvements, there are options available for financing those improvements. As of the latest report, the amount of funding required is approximately \$14 million, which would require additional financial resources to accomplish.

Costs associated with stormwater improvements include engineering for the design of improvements, acquisition of retention land, regrading of land, and the installation of storm sewers, and pumps.

The following options for financing storm water improvements fall into three categories: User Fee, Property Tax, and Use of Reserves.

### **1. User Fee: Create a Storm Water Utility**

Under Home Rule powers, the Village could establish a stormwater utility to finance storm water improvements. The stormwater utility is an exceptionally flexible way of paying for storm water improvements and can be customized as desired.

The charge could be a fixed fee spread evenly among all property owners or could cover just select areas of the community. The fee could also be based on other factors, such as the relative amounts of impervious surface on individual parcels. The charge could be added to utility bills and collected with other utility payments.

Storm water utilities are becoming a more common means of paying for storm water improvements because their benefits such as:

- Providing a reliable source of funding;
- Being essentially a user fee leading to equitable cost assessment;
- Being able to increase or decrease funding quickly to meet needs;
- Using the proceeds to pay for capital projects, equipment, maintenance, and compliance; and
- Addressing unfunded federal mandates related to storm water.

A stormwater utility would generate a revenue stream that would be dedicated towards improving specific infrastructure needs. As with the Village's electric utility, a stormwater utility can have a flexible structure of rate categories. The various rate structures can be scaled to reflect land use categories and take into consideration zoning districts or development patterns. The rate structure can also be adjusted to reflect the potential use of General Fund Reserves, benefits derived from jurisdictional transfers from the State of Illinois, and the potential receipt of any grant funding or intergovernmental collaboration.

The following table delineates the costs of issuing \$10-, \$15-, and \$20-million dollars in debt and what that would cost residents, assuming those costs were to be split equally among all parcel owners. For example, a \$15-million dollar project spread over 20 years would cost about \$246.67 per year per parcel (bold amount on chart).

	Total Amount Financed	Annual Cost **		
		10 Year Level Debt	15 Year Level Debt	20 Year Level Debt
Debt Total	\$ 10,000,000	\$ 1,230,000	\$ 900,000	\$ 740,000
Per Parcel (4,500) *	\$ 2,222	\$ 273.33	\$ 200.00	\$ 164.44
Monthly		\$ 22.78	\$ 16.67	\$ 13.70
Debt Total	\$ 15,000,000	\$ 1,845,000	\$ 1,350,000	\$ 1,110,000
Per Parcel (4,500) *	\$ 3,333	\$ 410.00	\$ 300.00	\$ <b>246.67</b>
Monthly		\$ 34.17	\$ 25.00	\$ 20.56
Debt Total	\$ 20,000,000	\$ 2,460,000	\$ 1,800,000	\$ 1,480,000
Per Parcel (4,500) *	\$ 4,444	\$ 546.67	\$ 400.00	\$ 328.89
Monthly		\$ 45.56	\$ 33.33	\$ 27.41

\* Parcels including residences, commercial, and governments assumed at

4,500

\*\* Based on the following present value factors, 4% interest:

0.123

0.090

0.074

Over the past several years, there has been an increase nationally in the creation of stormwater utilities, as municipalities have sought to mitigate the impact of flooding upon private as well as public properties. The creation of these utilities reflects an accepted method for equitably assessing the costs of the system toward solving a problem that affects an entire community, not just the properties that are directly impacted.

**Recommendation:**

A storm water utility is recommended if significant storm water improvements are pursued.

**2. Property Tax Options**

**A. Special Service Area**

The Village could finance the improvements by defining the areas improved and assessing a charge to properties in that area. This financing option allocates the cost based on the assessed value of the properties in the special service area.

The special service area has several benefits: it is a reliable source of on-going funding, the costs are assessed against the properties that benefit from the improvements, the tax can be

adjusted annually, and it is easy to explain to customers. The fees also rebalance themselves as property values increase in the areas improved.

The following table delineates the costs of issuing \$10-, \$15-, and \$20-million dollars in debt and what that would cost residents. The following table is based on a homeowner with a current total property tax bill of \$20,000, of which the Village portion is about 13.1% or \$2,635.

	Total Amount Financed	Annual Cost **		
		10 Year Level Debt	15 Year Level Debt	20 Year Level Debt
Debt Total	\$ 10,000,000	\$ 1,230,000	\$ 900,000	\$ 740,000
Annual Cost		\$ 247.00	\$ 181.00	\$ 149.00
Debt Total	\$ 15,000,000	\$ 1,845,000	\$ 1,350,000	\$ 1,110,000
Annual Cost		\$ 371.00	\$ 271.00	\$ 223.00
Debt Total	\$ 20,000,000	\$ 2,460,000	\$ 1,800,000	\$ 1,480,000
Annual Cost		\$ 495.00	\$ 362.00	\$ 298.00

\* Assumes \$20,000 property tax bill, \$2,635 Village portion, or 0.020106% of total Village Property Tax Levy.

\*\* Based on the following present value factors, 4% interest: 0.123 0.090 0.074

The downside to using a property tax method is that the costs are directly proportional to property values as determined by the County, which is not necessarily related to the nature and extent of the benefit received. Additionally, if the size of the area paying for the improvement is relatively small, the cost per parcel can become prohibitively high.

**Recommendation:**

Special service areas are an option to address localized problems that are not community-wide problems.

**B. Increase Village-Wide Property Taxes**

The Village has increased property taxes less than most other governmental entities that tax our residents. From 1997 to 2009, staff estimates that while, overall, property taxes increased by about 74%, the increase in the taxes levied by the Village over the same time period was about 34%, less than half the overall rate.

Currently, the Village portion of a typical property tax bill is approximately 13%. The Village could raise property taxes an extra 3% each year for three years. If those dollars were dedicated for storm water purposes, at the end of three years, the Village would have a revenue stream of \$1,170,000. A \$1,170,000 annual revenue stream could support about \$15,600,000 of bonds (assuming a 20 year term and 4% interest rate).

While property taxes generate additional revenues, there are many concerns with this option, including: property tax increases are not popular, properties would be assessed based on the tax value of the parcel rather than on the extent that they contribute to the problem or benefit from the improvement, and tax exempt entities would not be required to pay.

Staff would estimate that a homeowner with a \$20,000 total property tax bill would pay an additional \$79.02 annually for a 3% increase in the Village's portion of the property tax levy (\$20,000 total x 13.17% Village portion x 5% = \$79.02).

**Recommendation:**

Given the community sensitivity to property taxes, staff does not recommend this option.

**3. Strategic Use of General Fund Reserves**

As of March 31, 2011, the Village's General Fund had an available cash balance of \$17.23 million<sup>1</sup>. The Village's policy is to maintain a minimum cash balance of at least \$11 million for operational needs and to allow for unforeseen events. Maintaining an appropriate fund balance is prudent, given the age of the Village's infrastructure, the desire to potentially fund other projects (downtown repairs, sanitary sewer repairs, roads, and other infrastructure needs), and the current economic environment.

If the Village were to determine that almost all of the discretionary General Fund reserves should be dedicated for storm water improvements, up to \$6.23 million could be available. However, if all \$6.23 million were allocated to storm water improvements, few if any reserves would be available to pay for other capital projects or meeting exigent circumstances.

**Recommendation:**

Staff would suggest that up to \$5.0 million of reserves could be used to fund storm water improvements on a 1:3 matching basis with any new revenues created or bonds issued for storm water improvements (i.e., for every \$3 of new revenues or \$3 of bonds issued, \$1 of General Fund reserves would be used).

**4. Other Considerations**

The Village can also issue debt under each of the above options. This process takes approximately three to four months to accomplish. Debt provides a source of funds that allows a municipality to complete a project in the near term and pay for that benefit over an extended time period. This is similar to buying a home and amortizing that cost over the term of the mortgage.

Stormwater improvements tend to have a long life, exceeding 30 years, which makes the use of debt an appropriate instrument for such expenditures. This allocates the cost of these

---

<sup>1</sup> Calculated as \$19.87 million on page 7 of 3/31/2011 CAFR, less deposits payable (\$1.57 million), accounts payable (\$.61 million), and due to other funds (\$.46 million) = \$17.23 million.

improvements over time to those who will likely benefit and avoids making current residents pay the full cost of benefits they might not receive if they move.

A rough calculation can be made to estimate how much debt a given revenue stream can support. For every \$75,000 of annual revenue created, \$1,000,000 of bonds can be issued assuming a 4% interest rate and 20 year repayment schedule. A 15-year repayment schedule requires about \$90,000 of annual revenue.

The Village has about \$140,000 of annual debt service that will cease in calendar year 2015. This \$140,000 would support about \$1.8 million in bonds, assuming a 20 year repayment schedule.

## **Potential Service Enhancements**

### **1. Backflow Prevention Program.**

In 2006, as a means of helping property owners protect their property from sewer backups, the Village of Winnetka instituted a program to participate in the cost of installing backflow prevention devices on individual sanitary sewers. A backflow prevention device consists of a one-way valve placed on the sewer line serving a building that prevents sewage from flowing back into a building's basement. Outgoing wastewater is pumped around the one-way valve into the system. These systems are very effective, but not fail-safe, in preventing basement flooding of the type experienced by some residents during the July 22-23 flash floods.

The program also provides reimbursement for homeowners that wish to convert their homes to overhead sewer. This is a more robust project that eliminates any below-ground direct connections to the sanitary sewer by the use of an ejector pit and pump that collects wastewater from basement plumbing and floor drains and discharges and pumps it out to the sewer system. Ground-floor and upper floor plumbing continue to drain via gravity. This is significantly more expensive, but is also more reliable as a protective measure. All new construction is built with overhead sewer by code.

Since the Village has instituted the program, 13 applications for reimbursement have been submitted, at an average system cost of just under \$6,000 per installation. The most expensive installation for which reimbursement was requested was \$11,885. The Village's reimbursement level is 50% of the cost up to a maximum reimbursement of \$2,500. Given the effectiveness of these systems, it is reasonable to say that if more homeowners had taken advantage of this program, fewer basements would have suffered flood damage.

As a means of encouraging more homeowners to take advantage of this program, staff is proposing two possible modifications to this program for the Council's consideration.

The first modification is to increase the Village's maximum reimbursement cap to cover more expensive installations, perhaps capping the Village's reimbursement at \$4,000 or \$4,500. Of the 13 reimbursement requests, nine were capped at less than 50% of the installation cost.

The second modification would be for the Village to jointly bid the program to establish standard, and hopefully reduced, costs for installing a backflow prevention system. The

Village's purchasing power could be used to provide a resident potentially better pricing than they could obtain on their own.

## **2. Floodproofing Assessment.**

In several cases of basement flooding, water entered the basement through specific locations or entry pathways, such as a low window well or entry point. These situations could possibly be addressed by individual property improvements, rather than by area-wide infrastructure improvements.

Staff recommends that the Council consider the possibility of providing a Village-wide program whereby homeowners could receive an individual property flood protection assessment. Such a program anticipates a site visit by an engineer, internal and external property inspections, and a flood risk reduction report containing recommendations to reduce the risk of flooding for a property owner. The property owner would then be free to act on the report as they wish, implementing some, all, or none of the recommendations. The Village could administer this program by competitively soliciting proposals from engineering firms to provide a standard property evaluation fee, which could be paid for in full by the Village, in full by the property owner, or some combination thereof.

### **Recommendation:**

1. Provide policy direction on Possible Next Steps (p. 5, points 1 and 2).
2. Provide policy direction on Recommendations (pp. 7, 8 and 9).

Station 2-Winnetka	
10 min Precipitation (inches)	
7/22/2011 22:00	0.00
7/22/2011 22:10	0.00
7/22/2011 22:20	0.00
7/22/2011 22:30	0.00
7/22/2011 22:40	0.00
7/22/2011 22:50	0.00
7/22/2011 23:00	0.00
7/22/2011 23:10	0.27
7/22/2011 23:20	0.77
7/22/2011 23:30	0.61
7/22/2011 23:40	0.63
7/22/2011 23:50	0.98
7/23/2011 0:00	0.73
7/23/2011 0:10	0.29
7/23/2011 0:20	0.17
7/23/2011 0:30	0.15
7/23/2011 0:40	0.14
7/23/2011 0:50	0.09
7/23/2011 1:00	0.13
7/23/2011 1:10	0.14
7/23/2011 1:20	0.24
7/23/2011 1:30	0.65
7/23/2011 1:40	0.07
7/23/2011 1:50	0.02
7/23/2011 2:00	0.02
7/23/2011 2:10	0.01
7/23/2011 2:20	0.01
7/23/2011 2:30	0.02
7/23/2011 2:40	0.04
7/23/2011 2:50	0.02
7/23/2011 3:00	0.07
7/23/2011 3:10	0.06
7/23/2011 3:20	0.02
7/23/2011 3:30	0
7/23/2011 3:40	0
7/23/2011 3:50	0.05
7/23/2011 4:00	0.07
7/23/2011 4:10	0
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7/23/2011 4:40	0
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7/23/2011 5:00	0
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7/23/2011 8:10	0
7/23/2011 8:20	0.04
7/23/2011 8:30	0
7/23/2011 8:40	0.04
7/23/2011 8:50	0.01
7/23/2011 9:00	0
7/23/2011 9:10	0
7/23/2011 9:20	0
7/23/2011 9:30	0.01
7/23/2011 9:40	0
7/23/2011 9:50	0
7/23/2011 10:00	0.01

6.61



# Emergency Incident Map

## July 23rd, 2011 Storm Event

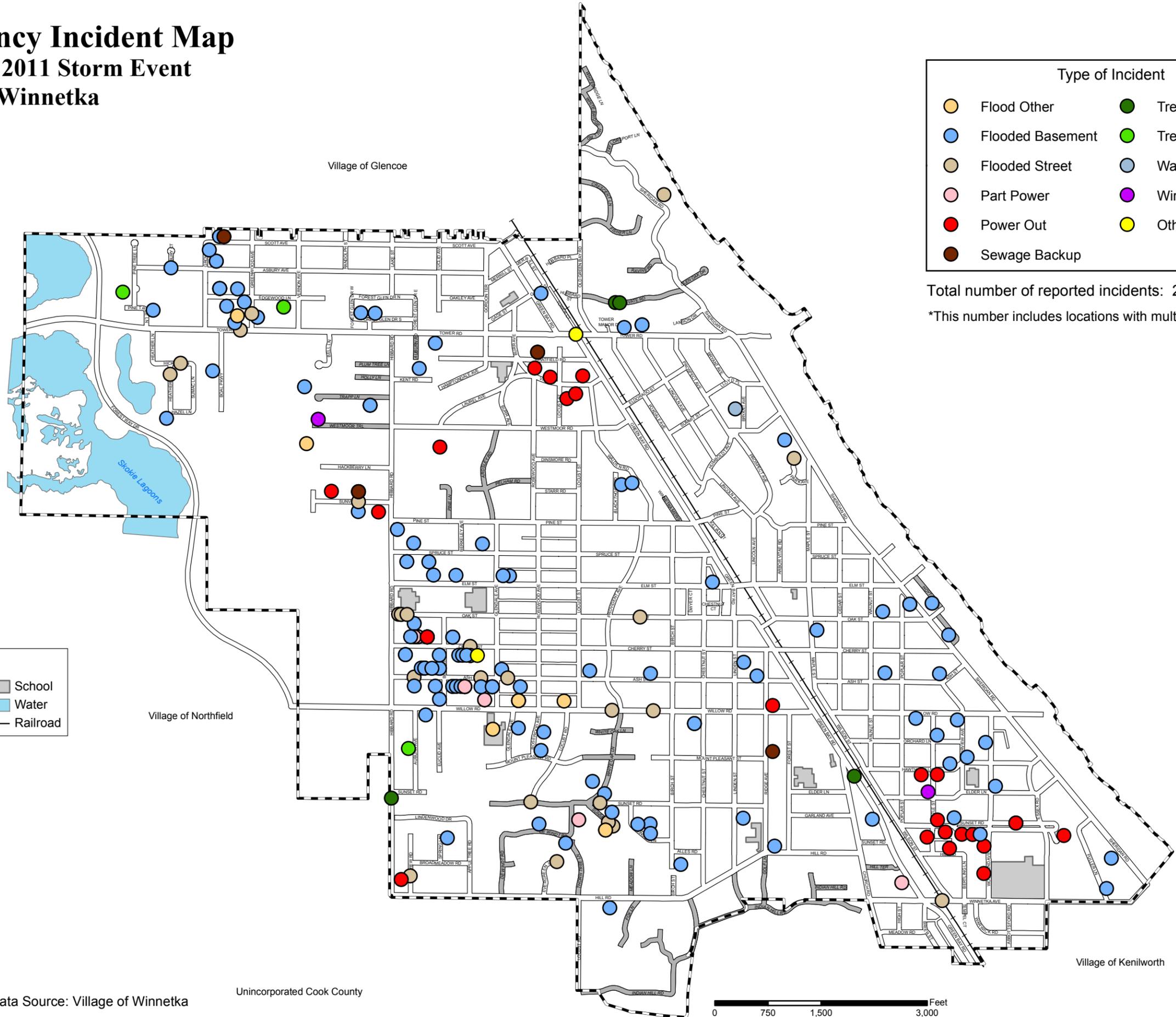
### Village of Winnetka

**Type of Incident**

	Flood Other		Tree Blocking Street
	Flooded Basement		Tree Hanging on Wire
	Flooded Street		Water Problem
	Part Power		Wire Down
	Power Out		Other
	Sewage Backup		

Total number of reported incidents: 219\*

\*This number includes locations with multiple call-ins



**Map Legend**

	Village Boundary		School
	Roads		Water
	Private Roads		Railroad



LIMITATION OF LIABILITY: The user agrees that it will all risks identify and hold the Village and its officers and employees harmless and free of any liability arising from any use of or reliance on information. The Village makes no claim as to the accuracy of the article and its associated data tables and assumes no responsibility for their accuracy or completeness, or for any errors or omissions in the data. The Village assumes no responsibility for the accuracy of any data or information derived from the article. The Village assumes no responsibility for the accuracy of any data or information derived from the article.

Data Source: Village of Winnetka

Unincorporated Cook County



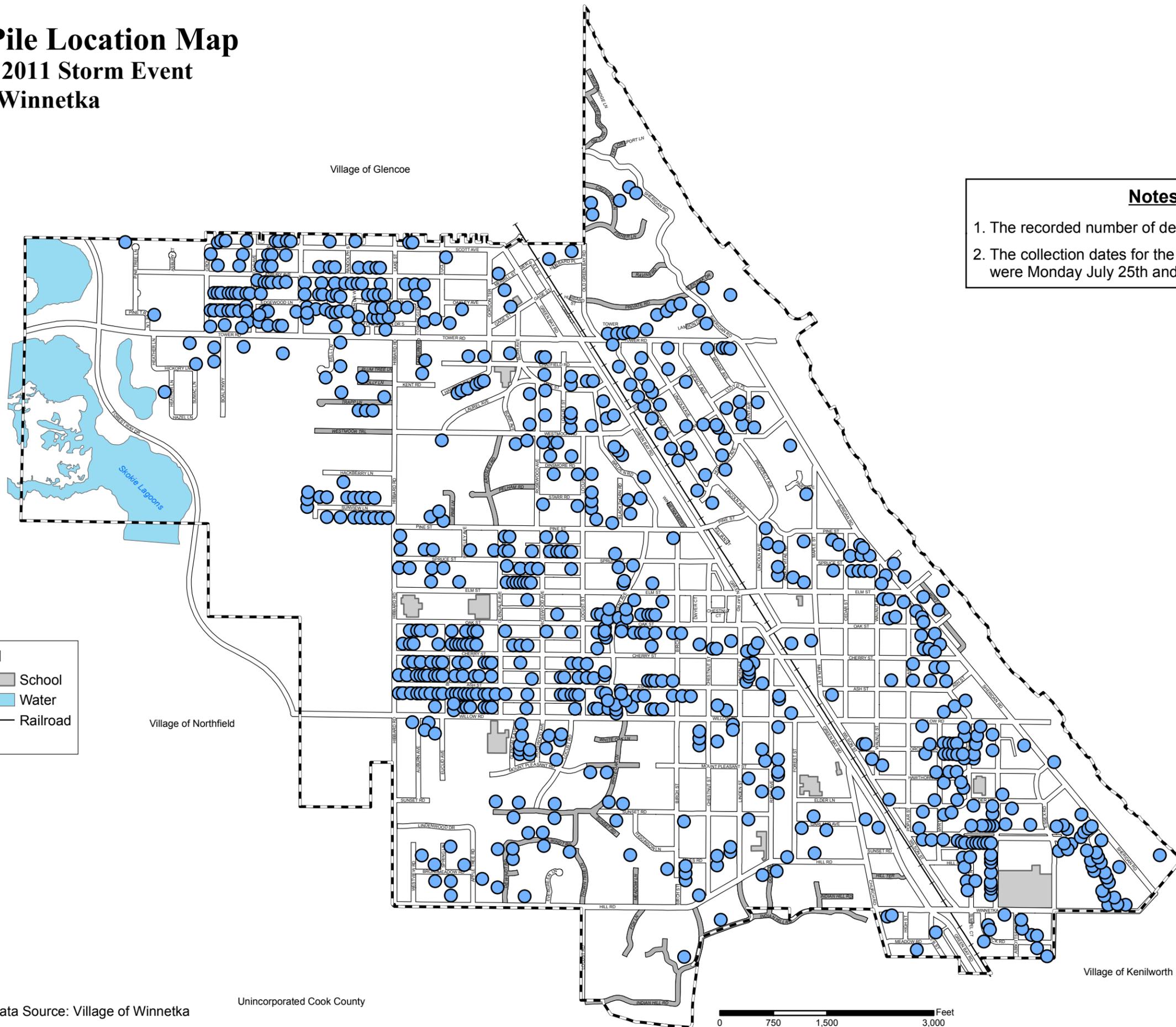
State Plane Nad 83 Illinois East  
July 25, 2011 EDV VehicleIncidents



# Debris Pile Location Map

## July 23rd, 2011 Storm Event

### Village of Winnetka



**Notes**

1. The recorded number of debris piles is 749
2. The collection dates for the debris pile information were Monday July 25th and Tuesday July 26th.



**Map Legend**

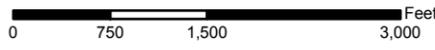
- Debris Pile
- ▭ School
- ▭ Village Boundary
- ▭ Water
- ▭ Roads
- ▭ Railroad
- ▭ Private Roads



DISCLAIMER OF LIABILITY: The user agrees that it will do all & use as is and hold the Village and its officers and employees harmless and free of any liability arising from any use of or reliance on information. The Village makes no claim as to the accuracy of the data and its associated data tables and assumes no responsibility for their use or for any damages or other liabilities that may be incurred by the user or for any other use of the data. The Village assumes no responsibility for the accuracy of any data or other information derived from this data. The Village assumes no responsibility for the accuracy of any data or other information derived from this data.

Data Source: Village of Winnetka

Unincorporated Cook County



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# July 22-23, 2011 Rainstorm and Flash Flood

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August 2, 2011

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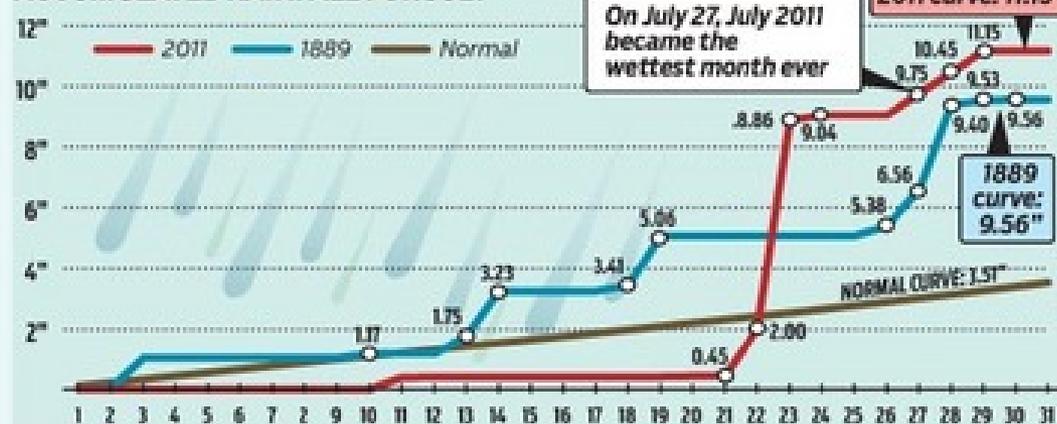
# Rainfall Data

- Cook County Precipitation Network Gauge
    - Near Willow & Hibbard
    - Records every 10 minutes
    - 3.99 inches between 11pm and midnight
      - Including 0.98 inches from 11:40pm to 11:50pm
    - 5.99 inches between 11pm and 1:30am
    - 6.61 inches between 11pm and 10am
-

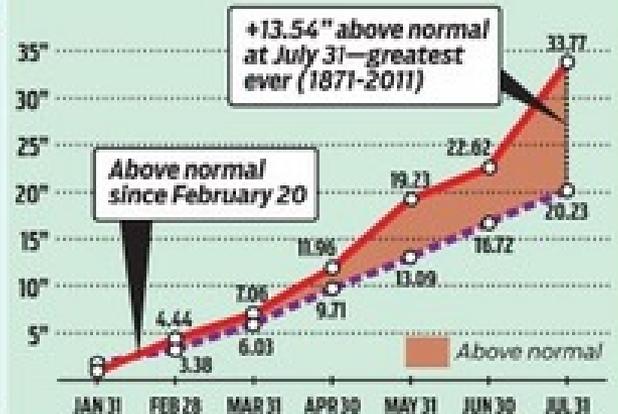
# From one of driest to all-time wettest July in just six days

This July started off very dry and as of July 21 we had received only .45"—off to the 6th driest start ever. Then 8.41" on the 22-23 followed by another 2+" on the 27-29th lifted this July into the wettest ever by a wide margin (old record 9.56" in 1889).

## ACCUMULATED RAINFALL FOR JULY

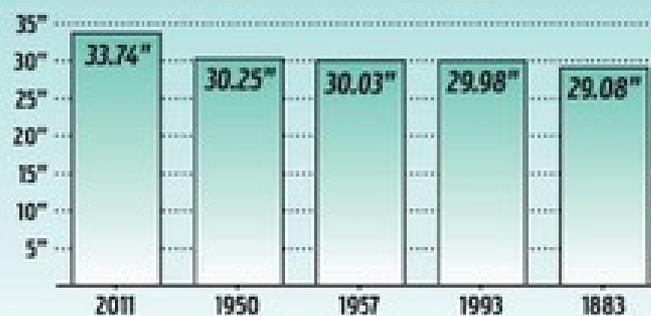


## ACCUMULATED INCHES OF PRECIPITATION



## CHICAGO'S WETTEST JAN. 1 – JULY 31

Never before has there been more precipitation in the first 7 months of the year than in 2011



## WETTEST JULYS

1871-2011: 141 years



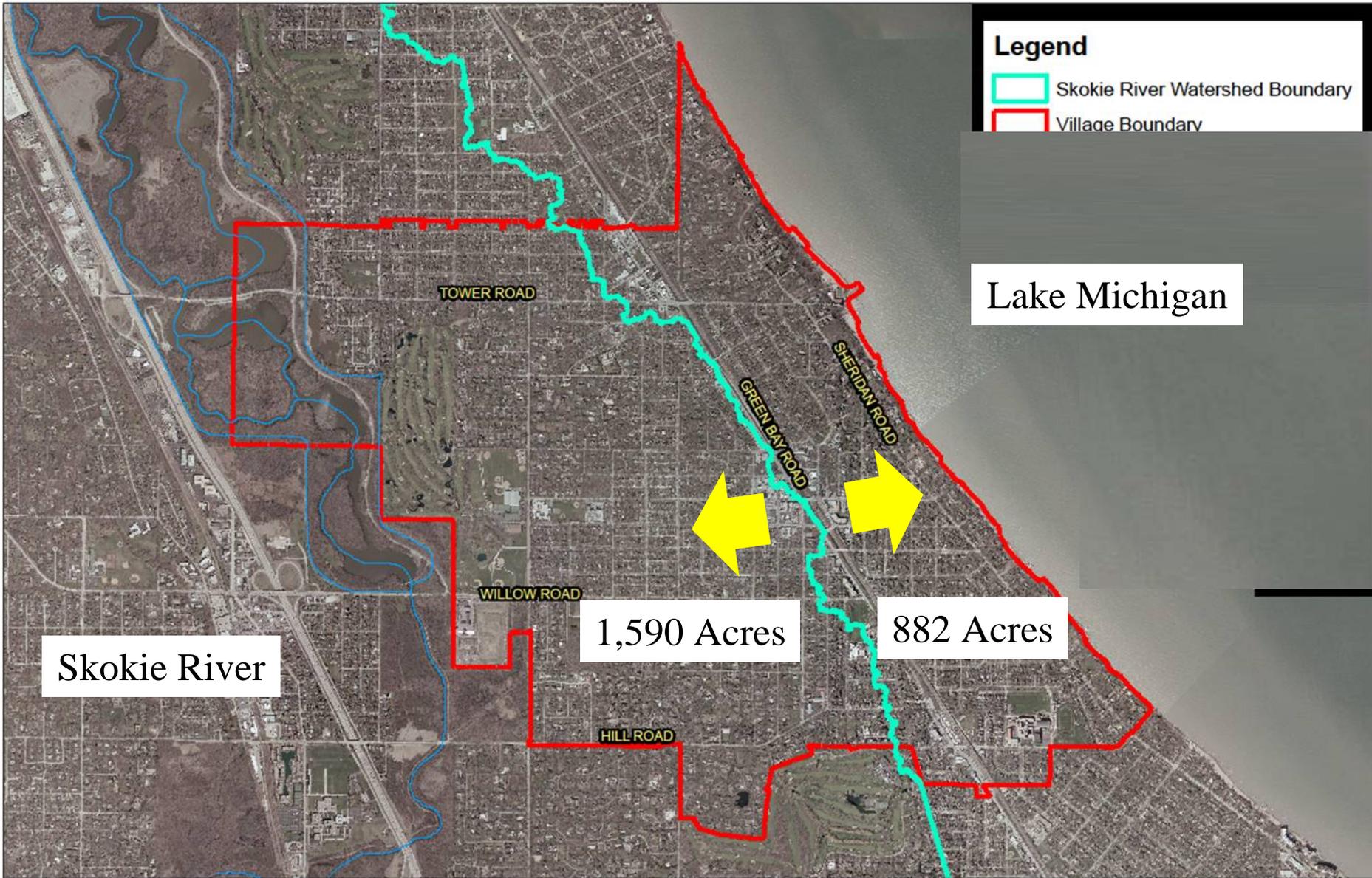
SOURCES: Frank Wachowski, National Weather Service archives

PAUL DAILEY, RICHARD KOENEMAN AND JENNIFER M. KOHNKE / WGN-TV

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# Comparison with Historical Rainfall

- 3-Hour Rainfall total
    - July 22-23, 2011: 6.08 inches
    - 1-percent chance rainfall: 4.85 inches
  - September 13, 2008
    - 7.04 inches in 24-hour period
  - August 19, 2007 (windstorm)
    - 2.17 inches
  - August, 1987
    - 9+ inches over 12 hours
-



**Legend**

-  Skokie River Watershed Boundary
-  Village Boundary

Lake Michigan

Skokie River

1,590 Acres

882 Acres

TOWER ROAD

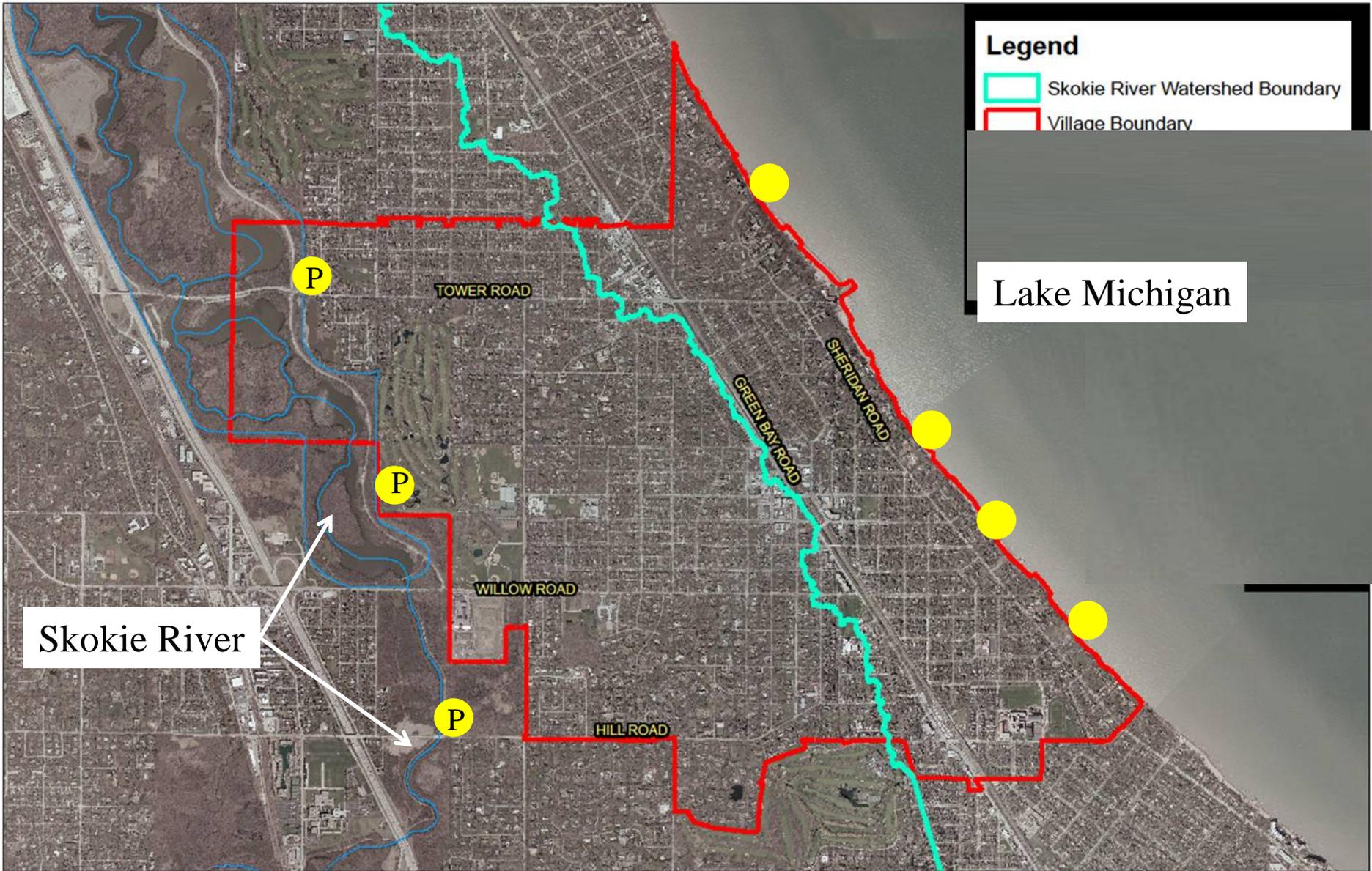
WILLOW ROAD

HILL ROAD

GREEN BAY ROAD

SHERIDAN ROAD

# Winnetka Outlets



Winnetka Outlet at Willow Road

Winnetka, IL

Skokie River

West Fork North Branch

North Shore Channel

North Branch Chicago River

115 sq. mi.

3.02 mi

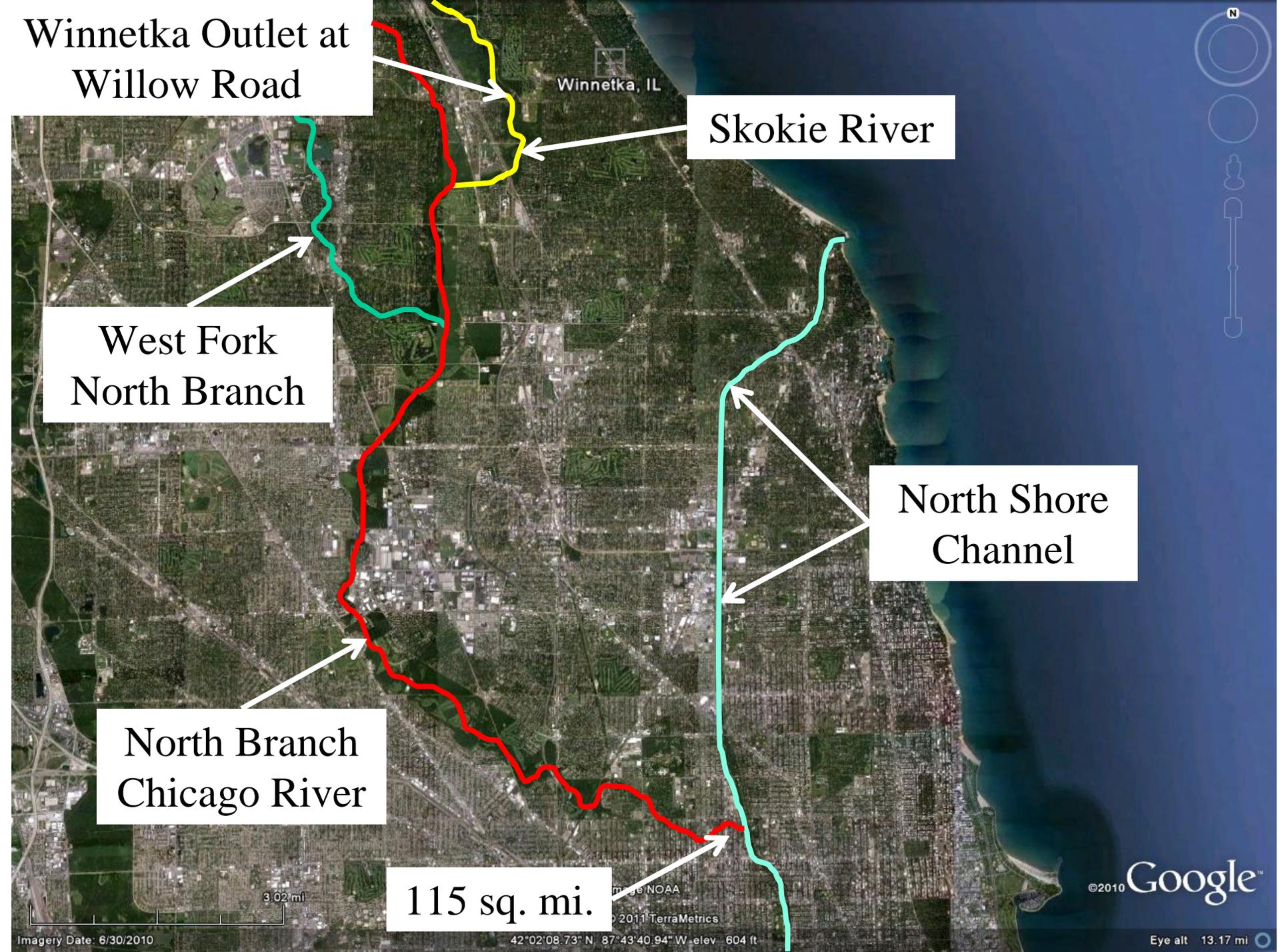
Image NOAA  
© 2011 TerraMetrics

©2010 Google

Eye alt 13.17 mi

42°02'08.73" N, 87°43'40.94" W elev. 604 ft

Imagery Date: 6/30/2010



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# What About the Wilmette “Locks”

- Located near Baha'i Temple on North Shore Channel
  - Not a lock, but a 32' gate that controls water level on North Shore Channel
  - Does not impact level of Lake Michigan or Skokie River, therefore no effect on Winnetka's storm sewers
  - Probably helps somewhat with sanitary backups
-

---

# Operation July 22-23, 2011

- Gate was opened approximately 2:20am July 23
  - Second gate at Navy Pier opened approximately 1 hour later
  - Gates operated to prevent flooding on North Shore Channel
-







Winnetka Outlet at Willow Road

Winnetka, IL

Skokie River

West Fork North Branch

North Shore Channel

North Branch Chicago River

3.02 mi

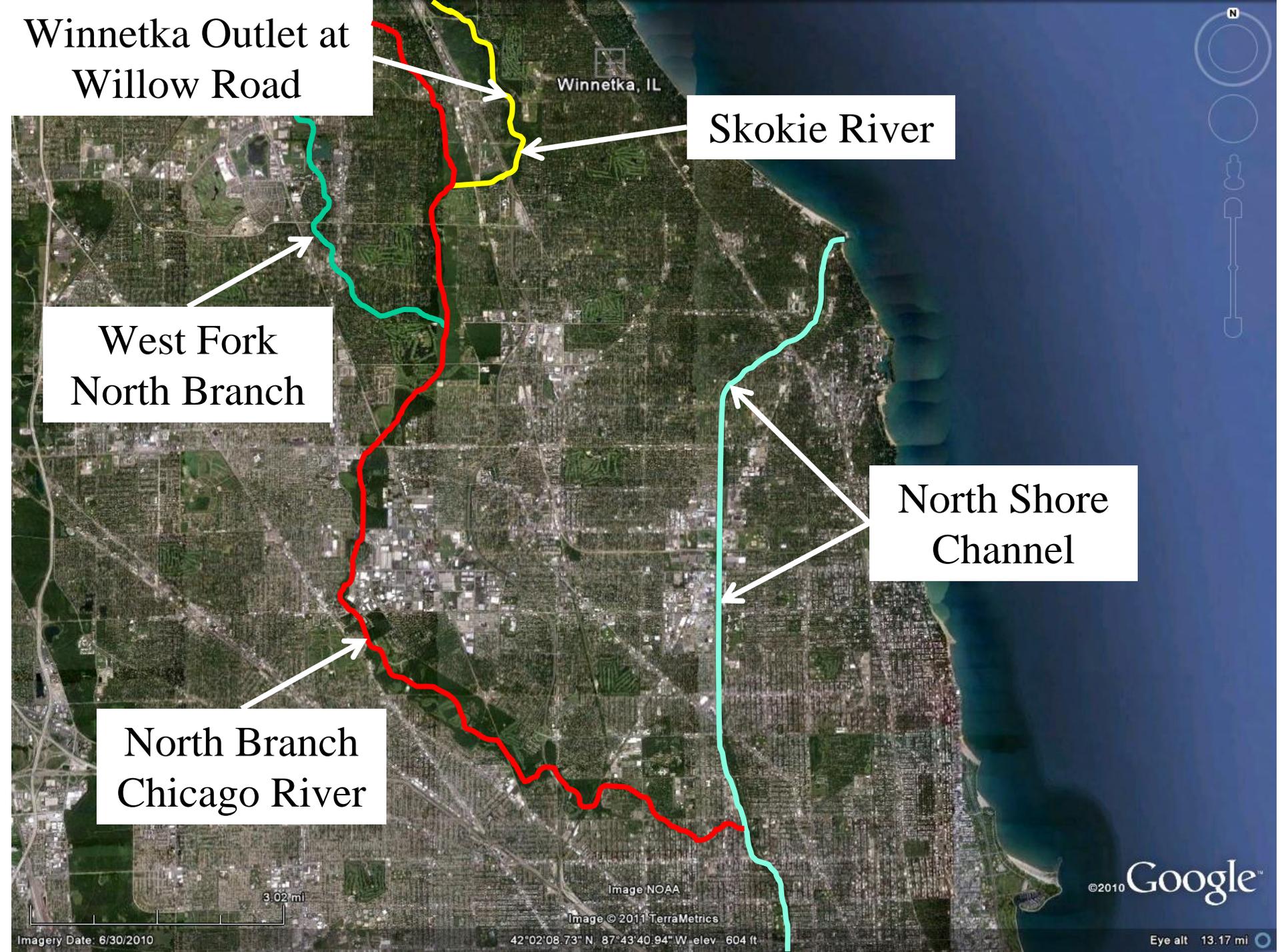
Image NOAA

Image © 2011 TerraMetrics

42°02'08.73" N, 87°43'40.94" W elev. 604 ft

©2010 Google

Eye alt 13.17 mi

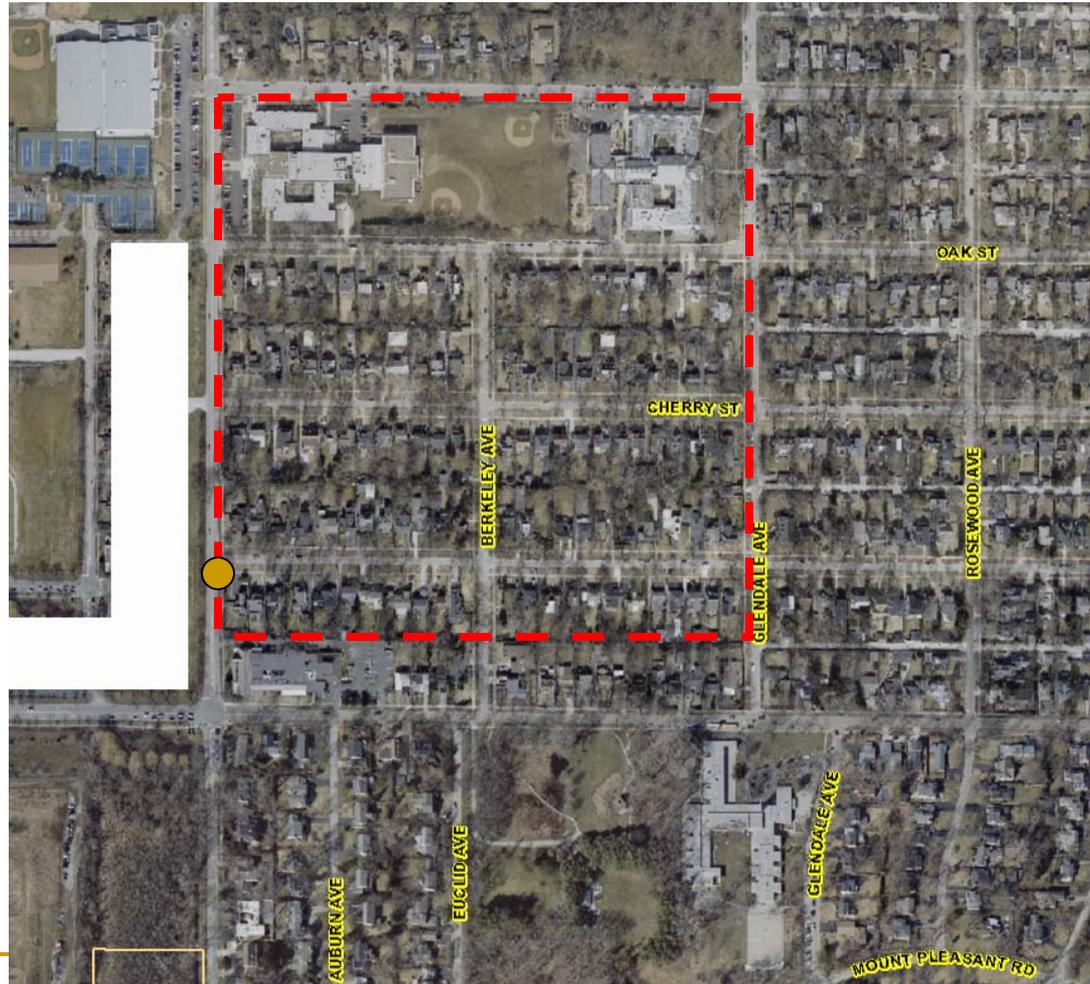


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# Ash Street Pump

- Located at Ash & Hibbard
  - Pumps to Hibbard with overflow to ballfield
  - Drains area bounded by Glendale, Oak, Willow, Hibbard
  - Became clogged with debris at some point during morning of July 23
  - Restored and supplemented by 1pm Saturday
  - Pumped until 1am Sunday
-

# Ash Street Pump Drainage Area



# Supplemental Pumping



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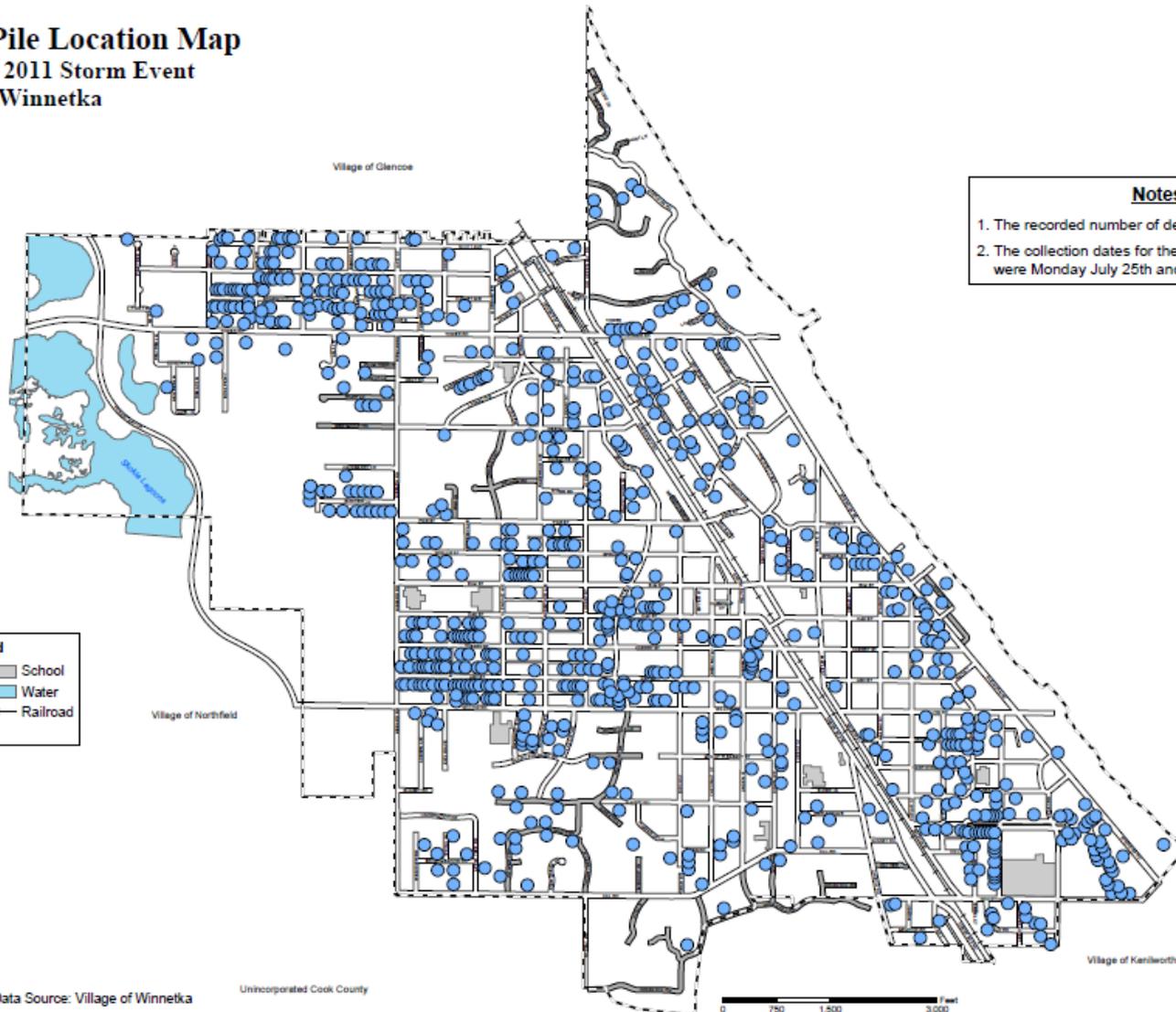
# Miscellaneous Data

- Additional Pump Operating at Skokie River by 2am.
  - Pumped 3 million gallons per hour into Skokie River at Winnetka Avenue from 2am until about 6pm when additional pump was shut off.
  - By 2:50 am, PW response morphed from water management to well-being checks in areas where PD and FD could not respond
-

# Damage Data



## Debris Pile Location Map July 23rd, 2011 Storm Event Village of Winnetka



### Notes

1. The recorded number of debris piles is 749
2. The collection dates for the debris pile information were Monday July 25th and Tuesday July 26th.

### Map Legend

Debris Pile	School
Village Boundary	Water
Roads	Railroad
Private Roads	



Data Source: Village of Winnetka

Unincorporated Cook County



State Plane NAD 83 Illinois East  
July 26, 2011 8:00 AM DebrisPile

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# Public Comment

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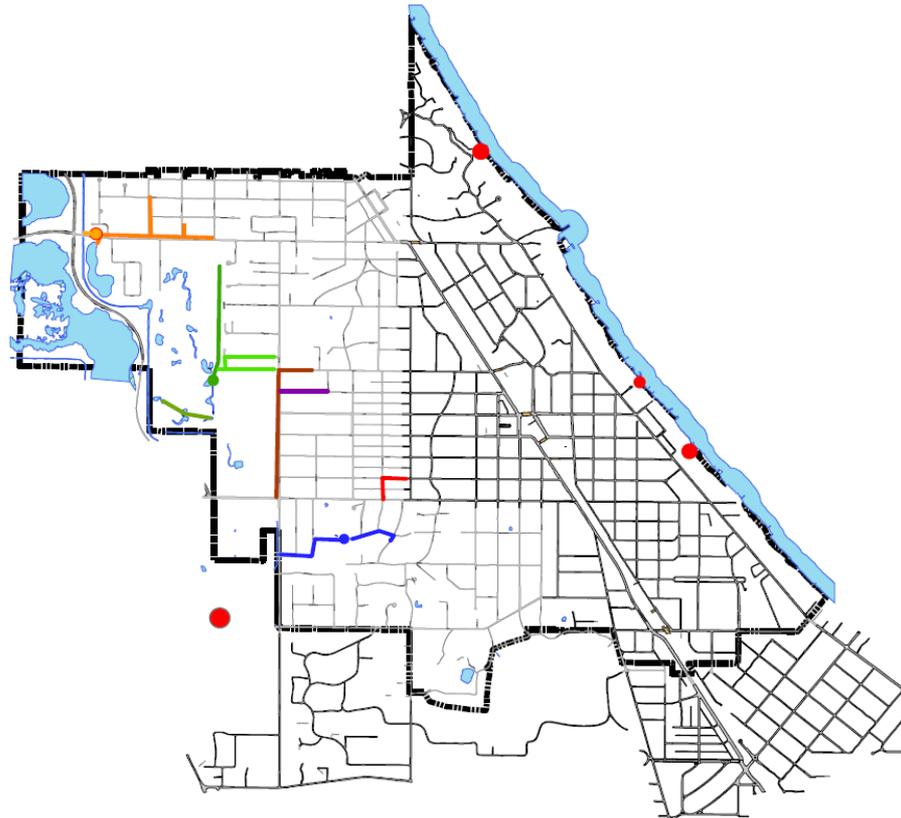
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# What has already been done?

- 1985 Sanitary Sewer Rehabilitation Program
    - \$4m public sewer repair, replacement, and lining program
  - Private I/I Disconnection Program
    - Identify illegal downspout, drain, and sump pump connections to sanitary system
  - Sewer Lining Program
    - Ongoing lining to seal and extend life of sewers
  - Laterals??
-

# Stormwater Drainage Improvements 1994-2008 (\$3,567,000)

Winnetka Ave Pump Station (1994)	\$505,000
Sub-area 8 Improvements (1995)	\$354,000
Hibbard Road Improvement (1998)	\$414,000
Spruce Street Outfall (2001)	\$118,000
Tower Road Improvements (2002)	\$551,000
Golf Course Improvements (2003-04)	\$416,000
Ravines Outfall (2004)	\$147,000
Sunview Lane Improvements (2005)	\$230,000
Tower Pump Station (2005)	\$50,000
Cherry Street Outfall (2005)	\$186,000
Ash Street Improvements (2008)	\$151,000
Spruce Street Improvements (2008)	\$445,000



# Proposed Improvements - \$14.1m

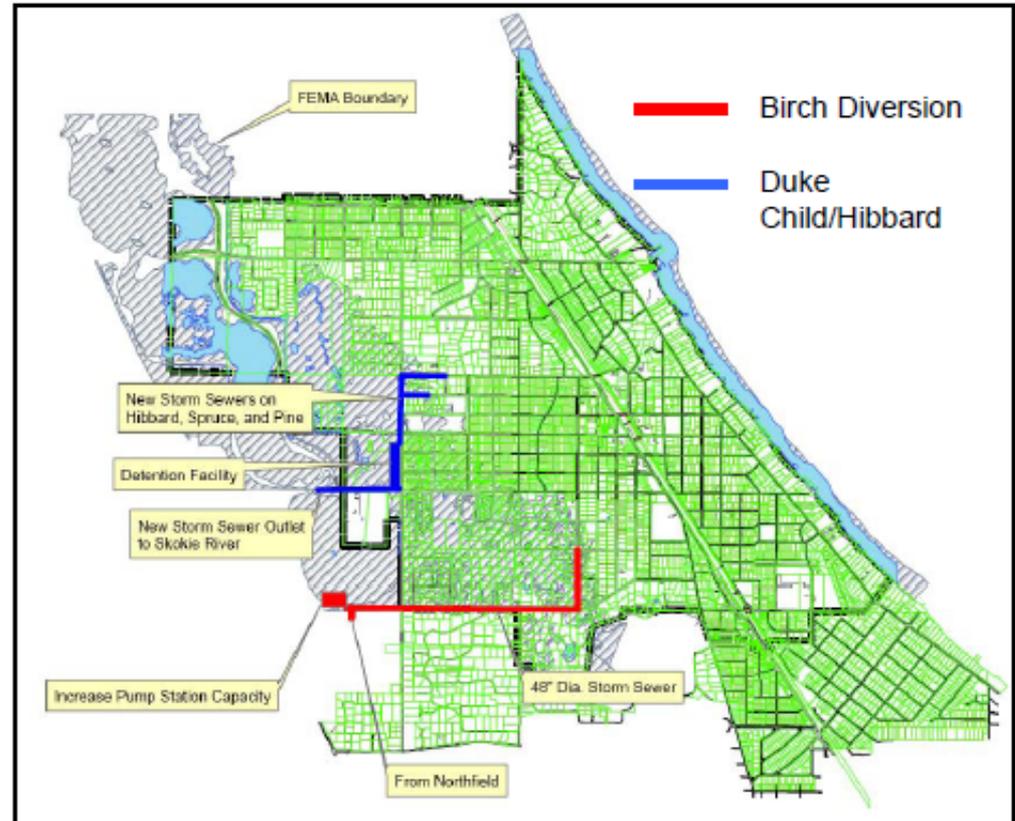
## 2009 Recommendations

### ■ Birch/Hill Diversion

- Construct new storm sewer along Birch and along Hill
- Increase pumping capacity
- Overbank storage in FPD
- Engineering FYE 2011
- Construction FYE 2012
- Benefits Birch, Alles, Sunset, Meadow, DeWindt, White Oak (pump also benefits north area)
- 10 year protection level
- **Cost \$3.5m**

### ■ Duke Child/Hibbard

- Pine, Spruce and Hibbard storm sewer
- Duke Child detention
- Ash Street Pump facility
- New pumped outlet via Willow Road
- Engineering FYE 2012
- Construction FYE 2013
- Benefits Pine-Willow e. of Hibbard, plus south area
- 5-10 year protection level
- **Cost \$4.5m**



---

# Proposed Improvements - \$14.1m

## 2011 Recommendations

- Underpass Area (\$2.4m)
    - New sewer under Winnetka, Essex, Elder
  - Cherry Outlet Area (\$692k)
    - New sewer under Sheridan to Lake
  - Spruce Outlet Area (\$368k)
    - New outlet via Lloyd Park
  - Greenwood Area (\$67k)
    - New laterals for low areas east & west of Greenwood
  - Provident Area (\$6.8m incl. 2009 cost)
    - New sewer via Westmoor, Walden, Blackthorn, Pine, Glendale, Elm
  - Ravine Area (\$146k)
    - New grates and inlets
-

# Effect of Proposed Improvements

Location	July 2011 Modeled	July 2011 after improvements
Birch near Hill	2.5 ft.	2.1 ft.
Pine near Hibbard	2.2 ft.	2.1 ft.
Spruce near Hibbard	1.3 ft	1.3 ft.
Cherry near Berkeley	1.9 ft	1.9 ft.
Greenwood N./ Tower	3.0 ft.	3.0 ft.
Winnetka Underpass	6.8 ft.	6.5 ft.
Sunset near DeWindt	4.4 ft.	1.4 ft.

# What would be required to handle the July 2011 Event?

- \$14.1m improvements were designed to 10-year event (2.86 inches in 3 hours vs. 6.08 inches)
- Increased conveyance for all improvements
  - Unable to model yet
- Increased detention volumes
  - 19.9 ac-ft for Spruce/Hibbard
  - 37.0 ac-ft for Ash/Hibbard
  - 34.3 ac-ft for Sunset/DeWindt
  - Plus 10.4 ac-ft proposed = 101.6 ac-ft



**Footprint  
11 feet deep**



**Footprint  
4 feet deep**



**Footprint  
16 feet deep**

---

# Engineering Recommendations

- Cancel \$14,800 cost-benefit analysis contract awarded last month
  - Evaluate higher flood protection levels for 4 areas of most severe overland flooding
    - Sunset/DeWindt
    - “Tree Streets” (Ash, Cherry, Oak, Spruce, Pine)
    - Greenwood - Tower area
    - Tower Manor area
    - Cost \$25,000
    - 25-year, 50-year, 100-year improvements
  - Vigorously pursue open space for detention
    - Will require balancing diverse missions of other public bodies
-

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# Council Discussion

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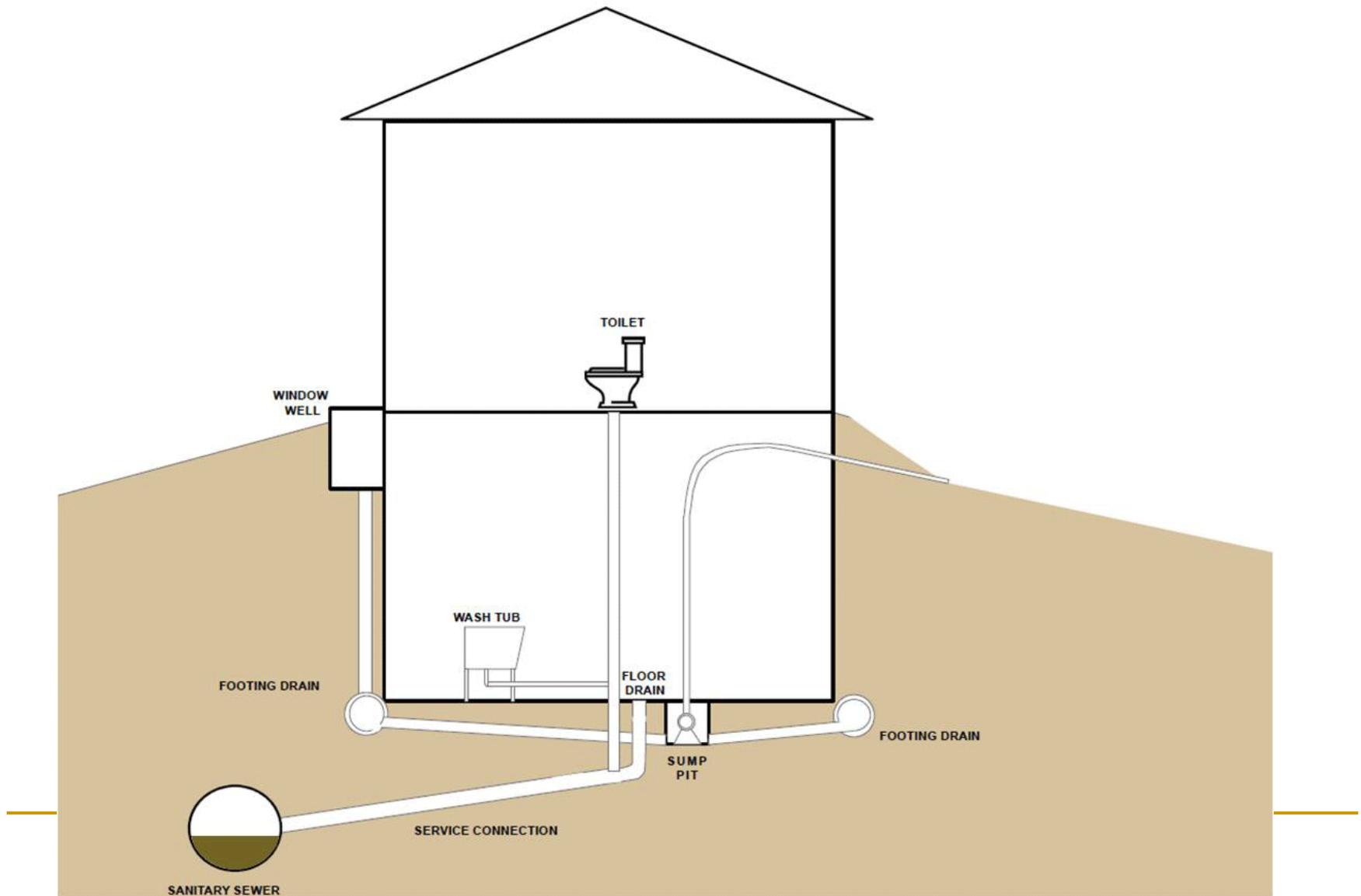
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# Stormwater Utility & Financing of Improvements

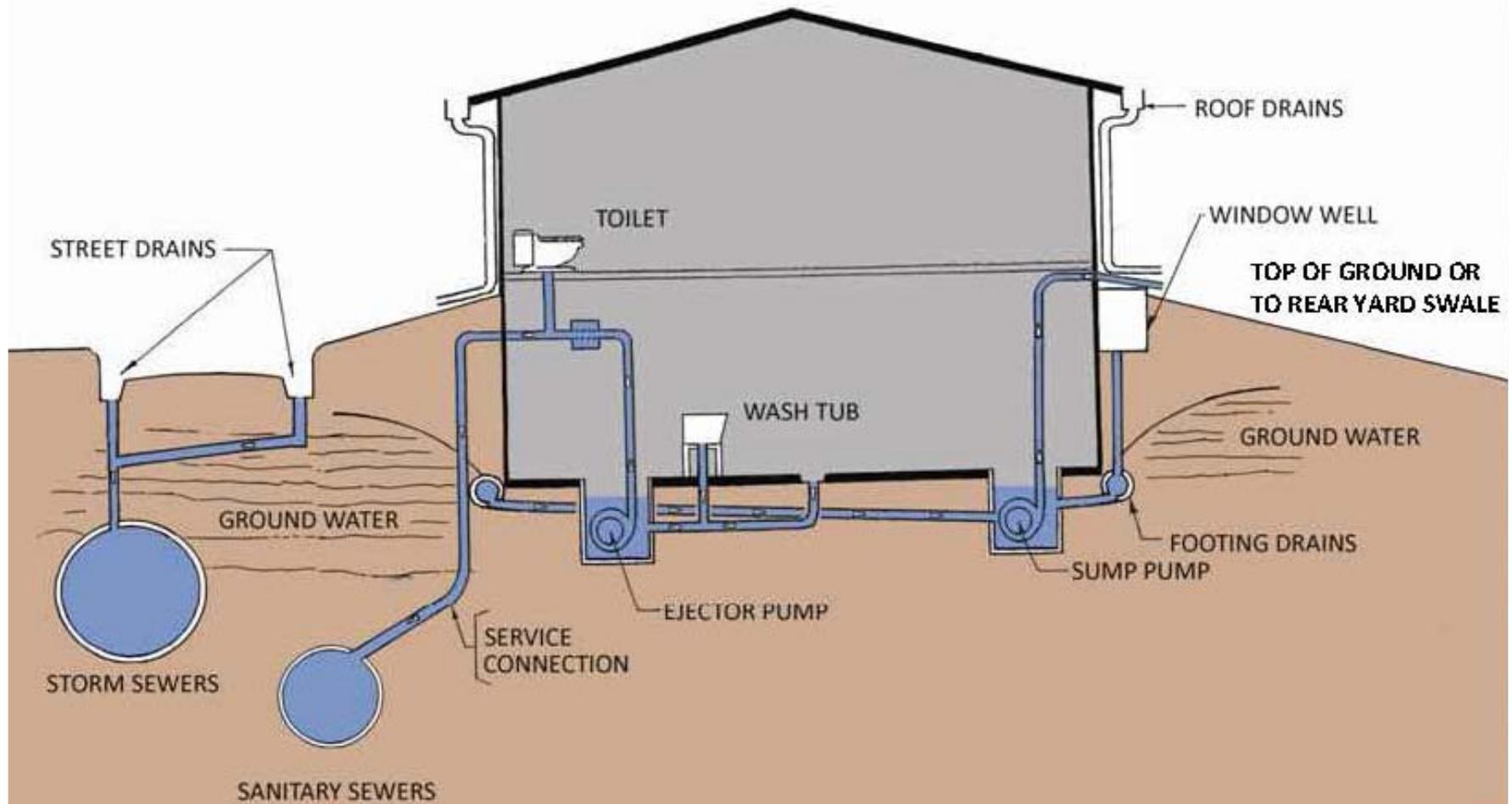
- Staff Presentation
- Council Questions/Discussion



# Sanitary Sewer Backup Simulation

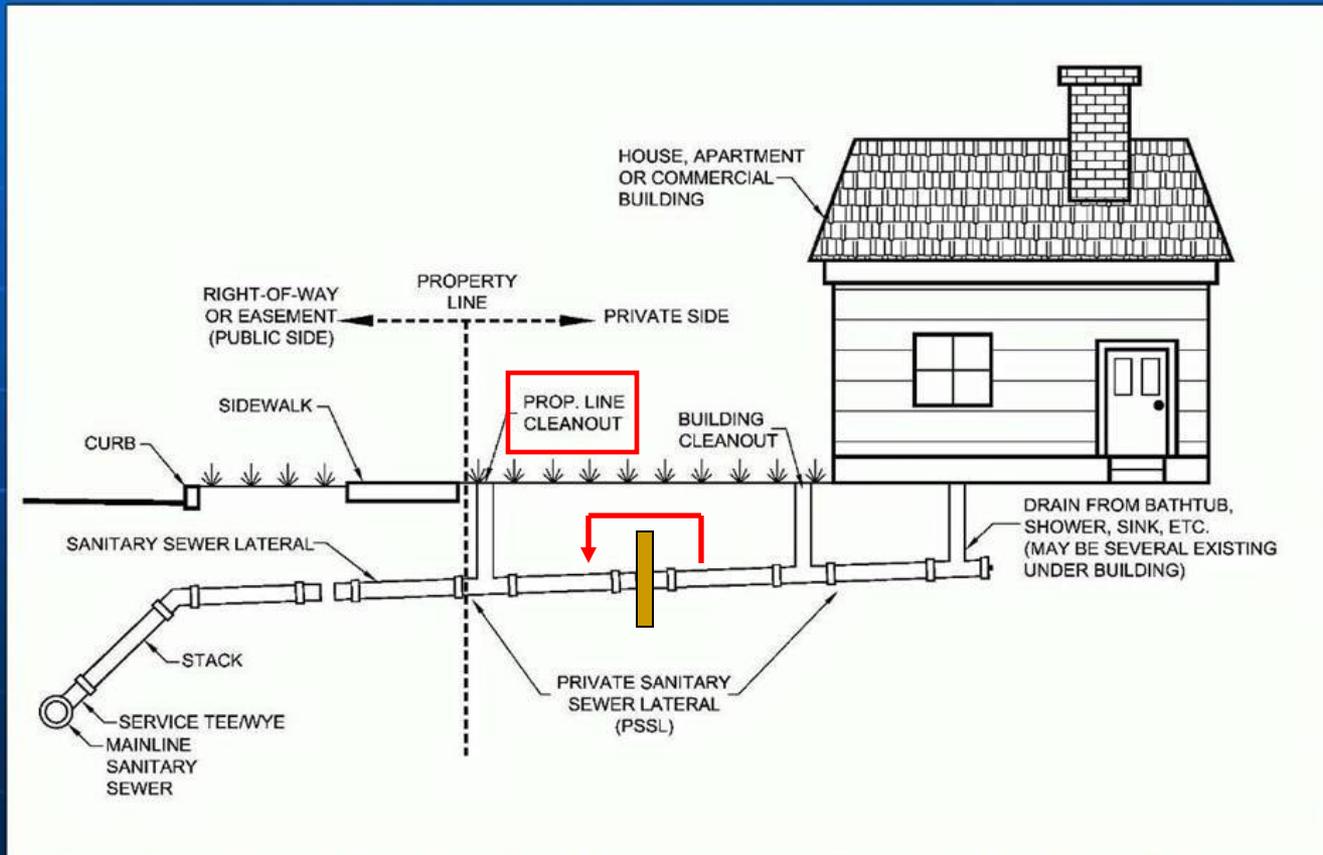


# Overhead Sewer Schematic



# Sanitary Backflow Prevention System

## Typical Sanitary Sewer Lateral



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# Backflow Prevention/Overhead Sewer

- Retrofit prevents backup from sanitary sewers surcharged by stormwater
  - Cost varies, less expensive systems \$6,000
  - Village reimburses 50% of cost up to \$2,500
  - 13 Reimbursement Requests since 2006
-

---

# Possible Enhancement

- Village could increase contribution level to encourage installation
    - 9 of 13 reimbursements were capped at \$2,500
    - Consider cap of \$4,000 to \$4,500
  - Village could bid to obtain standard price to help lower costs
  - Possible drawback: May increase flooding of unprotected homes
-

---

# Property Evaluations

- Village could contract with engineering firm to provide flood protection evaluations for individual homes
    - Site visit by engineer
    - Internal & external inspection
    - Report detailing recommended improvements
  - Fee could be paid by Village, subsidized by Village, or passed along to property owner
  - \$250 to \$500+ per home, estimated
-