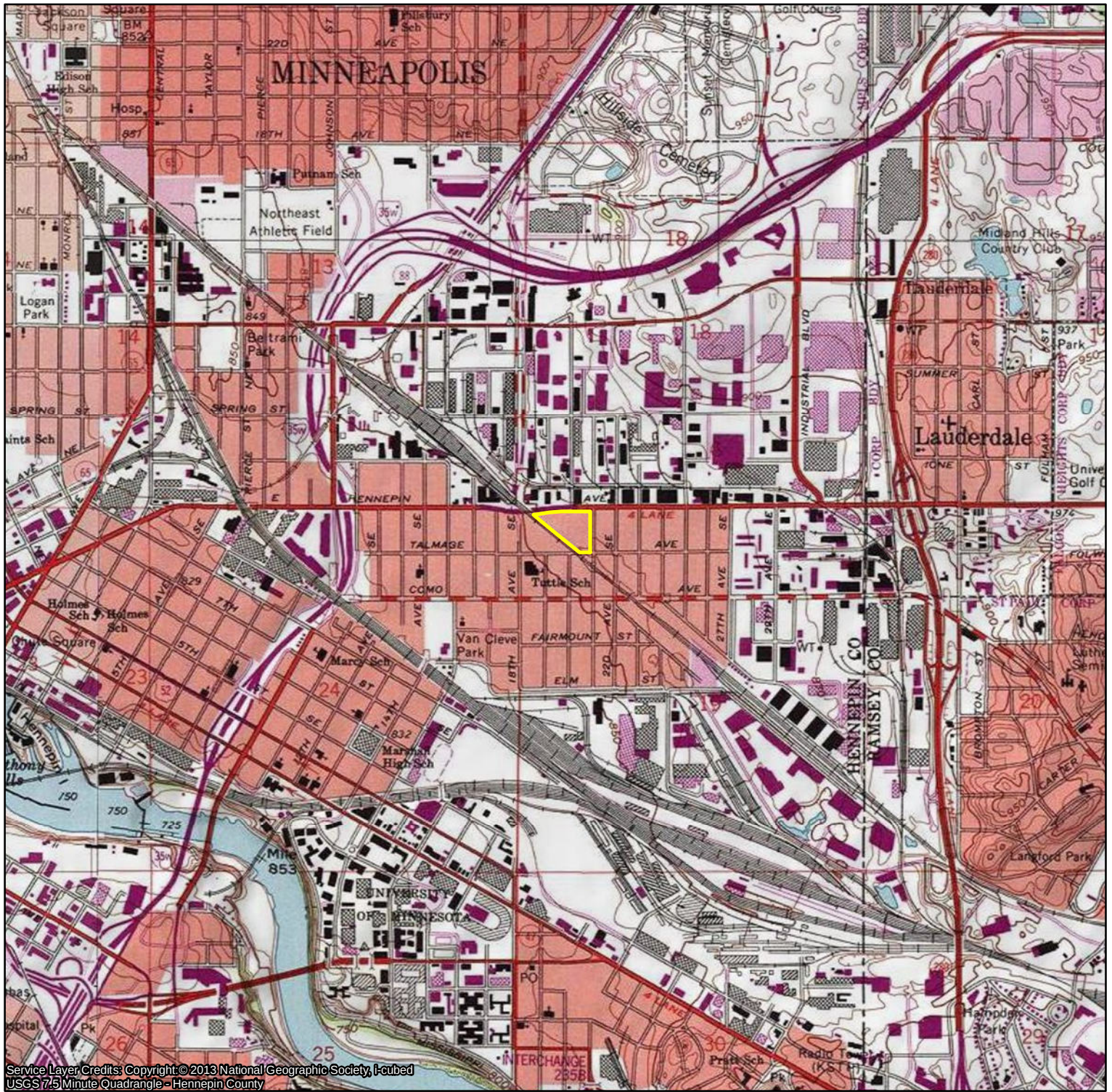


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 2010 East Hennepin Ave



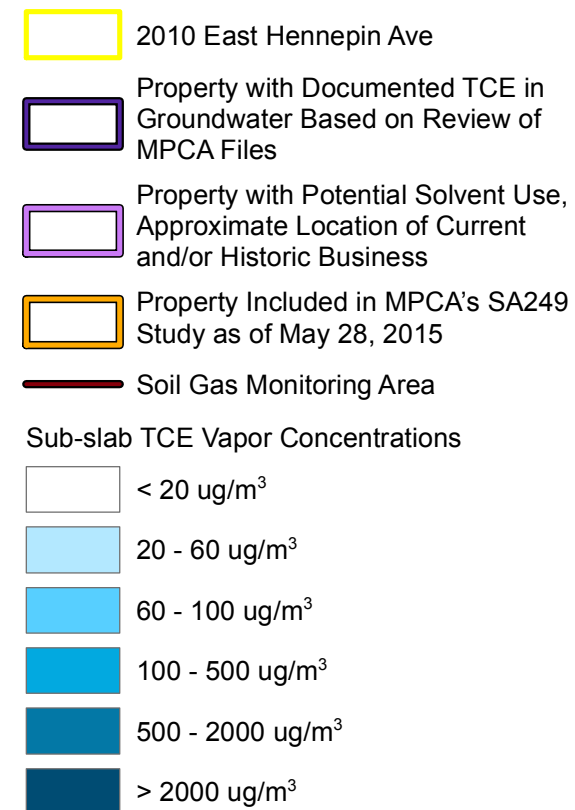
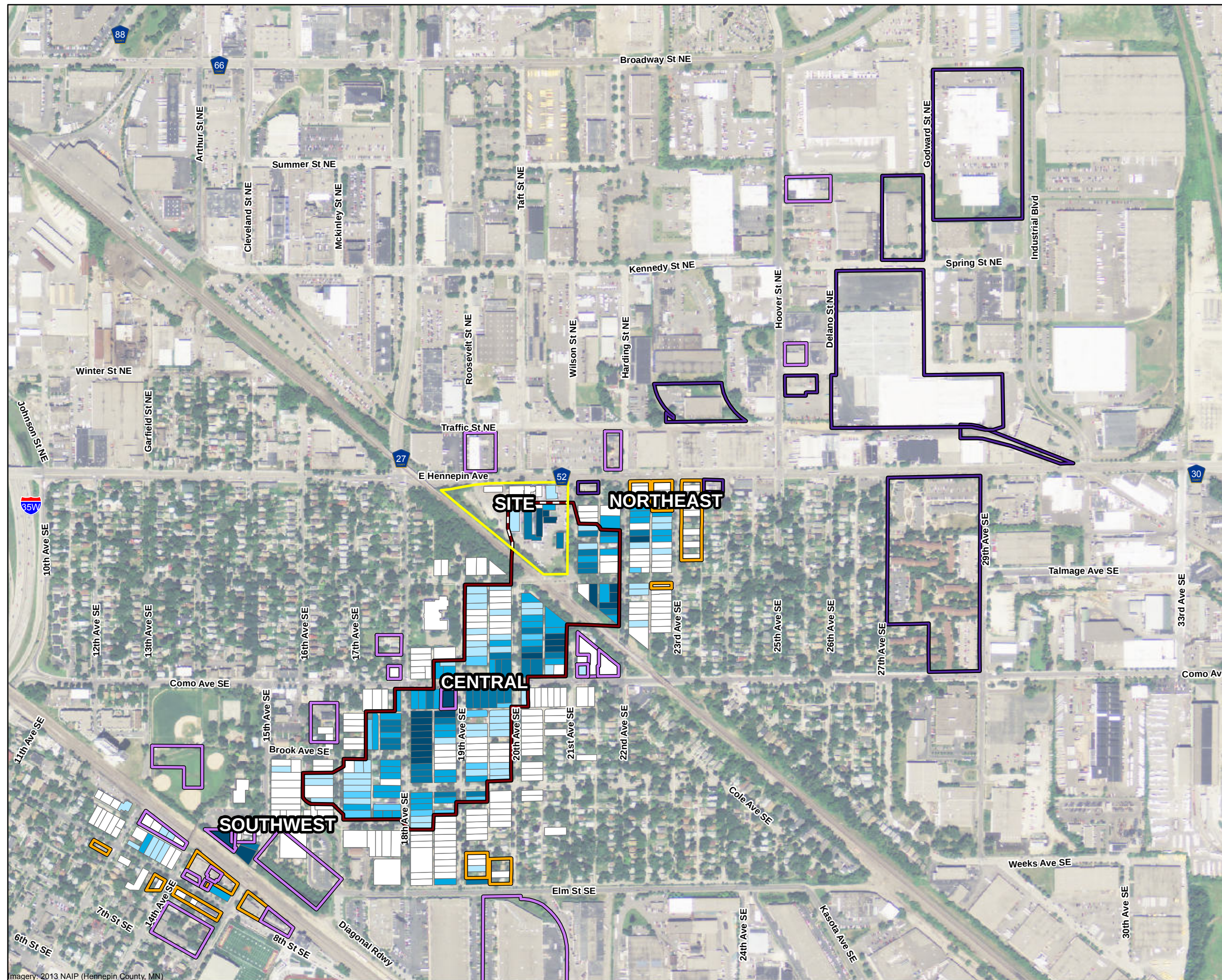
0 2,000 4,000
Feet



Figure 1

LOCATION MAP
East Hennepin Avenue Site
Minneapolis, Minnesota

Note: Pink shaded areas in USGS map
indicate residential areas.



Maximum sub-slab TCE vapor concentration at each building shown.

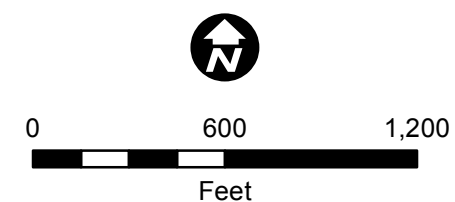
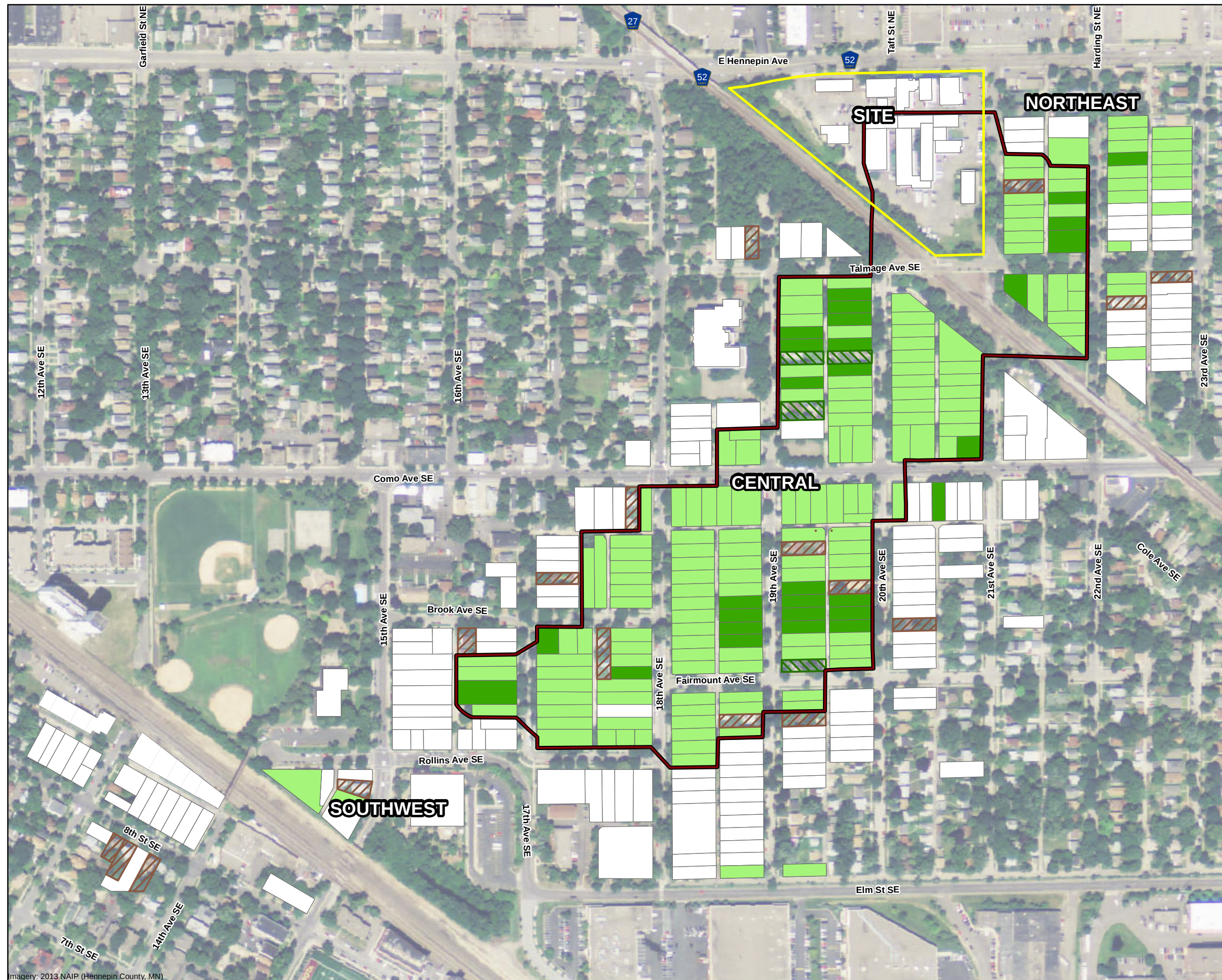


Figure 2

STUDY AREA

East Hennepin Avenue Site

Minneapolis, Minnesota



Imagery: 2013 NAIP (Hennepin County, MN)

- 2010 E Hennepin Ave
- Soil Gas Monitoring Area
- Building Mitigation System Installed - Property Mitigation Eligible
- Building Mitigation System Installed - Property Offered Mitigation
- Not Eligible for Mitigation
- Mitigation Declined by Property Owner
- Did Not Participate in Study

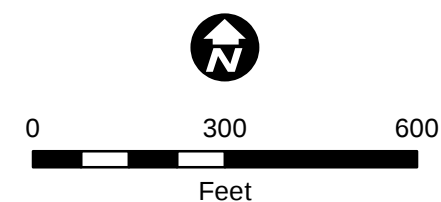


Figure 3

**BUILDING MITIGATION
STATUS**

East Hennepin Avenue Site
Minneapolis, Minnesota

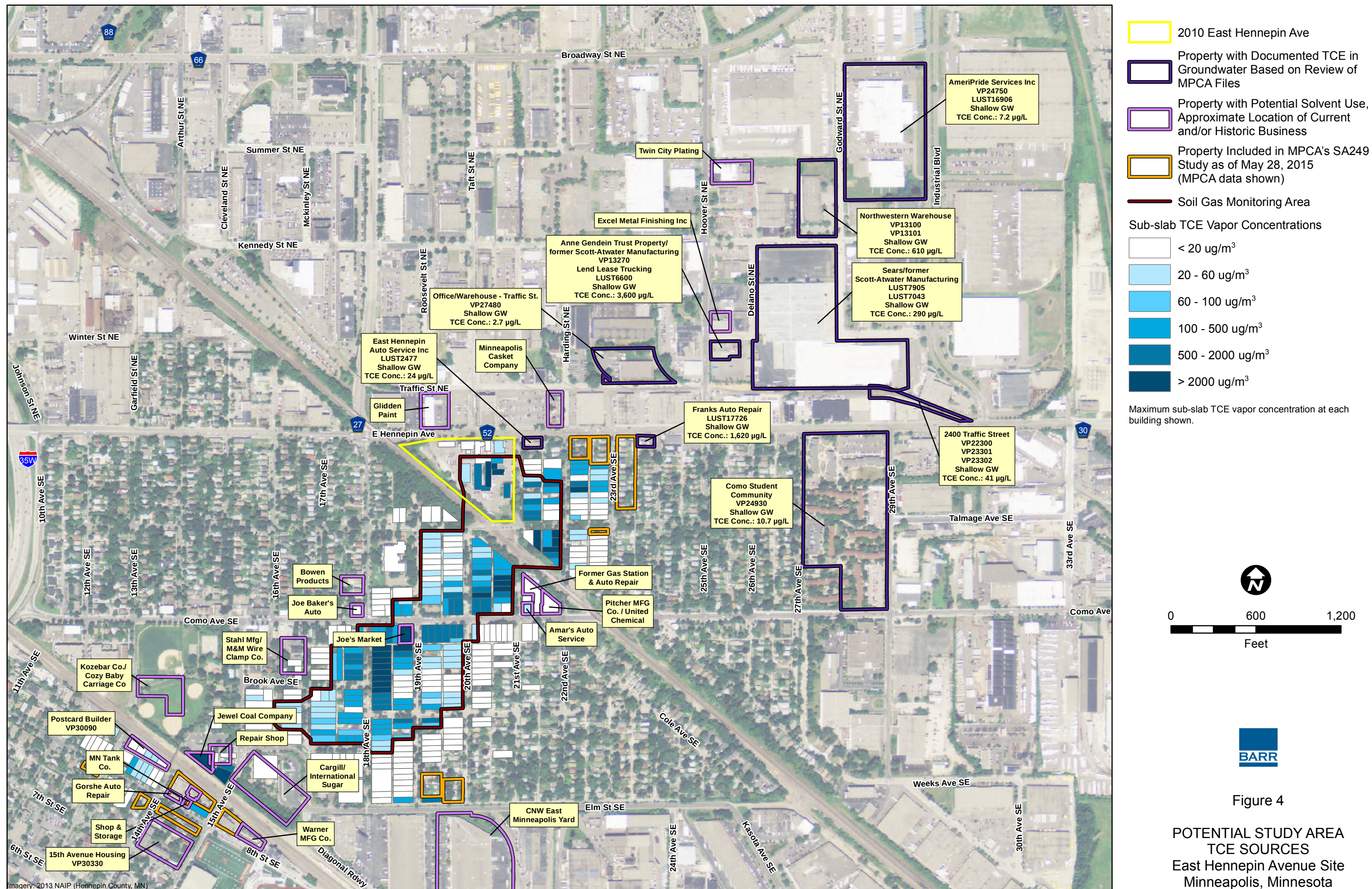
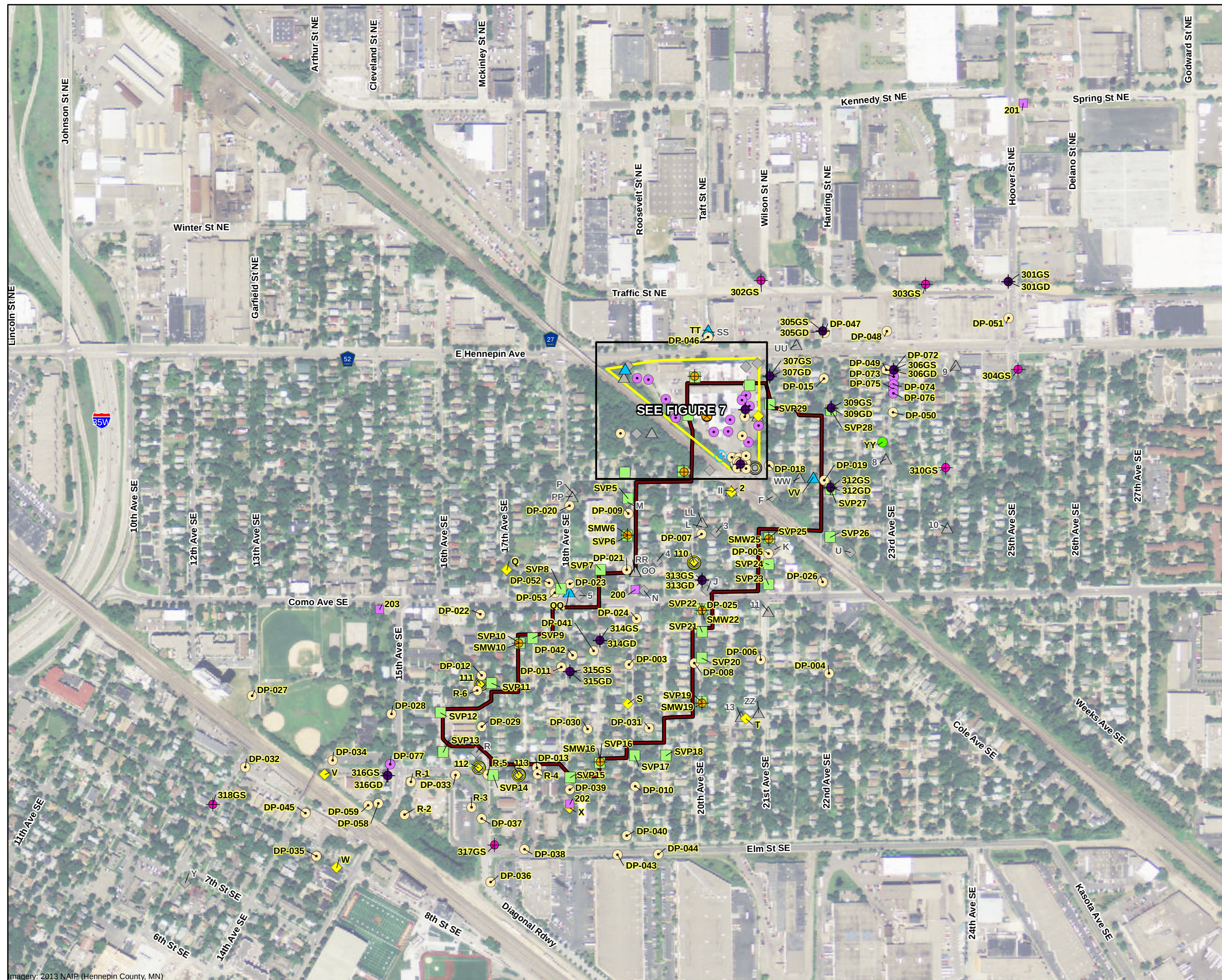


Figure 4

POTENTIAL STUDY AREA
TCE SOURCES
East Hennepin Avenue Site
Minneapolis, Minnesota



Imagery: 2013 NAIP (Hennepin County, MN)

- 2010 East Hennepin Ave
- Soil Gas Monitoring Area
- VI Pathway Investigation Locations
 - ◆ Glacial Drift Monitoring Well
 - ◆ Glacial Drift Nested Monitoring Well
 - ◆ Sentinel Monitoring Well
 - Boring
 - Sentinel Vapor Monitoring Port
- Previous Investigation Locations
 - ◆ Glacial Drift Monitoring Well
 - ◆ Glacial Drift Pump-Out Well
 - ▲ Magnolia Member Monitoring Well
 - ▲ Magnolia Member Pump-Out Well
 - Carimona Monitoring Well
 - St. Peter Sandstone Monitoring Well
 - ⊗ Prairie du Chien - Jordan Monitoring Well
 - Pre-VI Pathway Investigation Boring
- Abandoned / Former Wells
 - ▲ Carimona, Magnolia, and/or Hidden Falls Monitoring Well
 - ◆ Glacial Drift Monitoring Well
 - ◆ Glacial Drift Pump-Out Well
 - Carimona Pump-Out Well

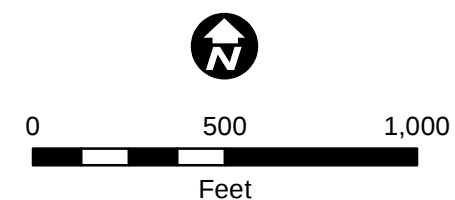
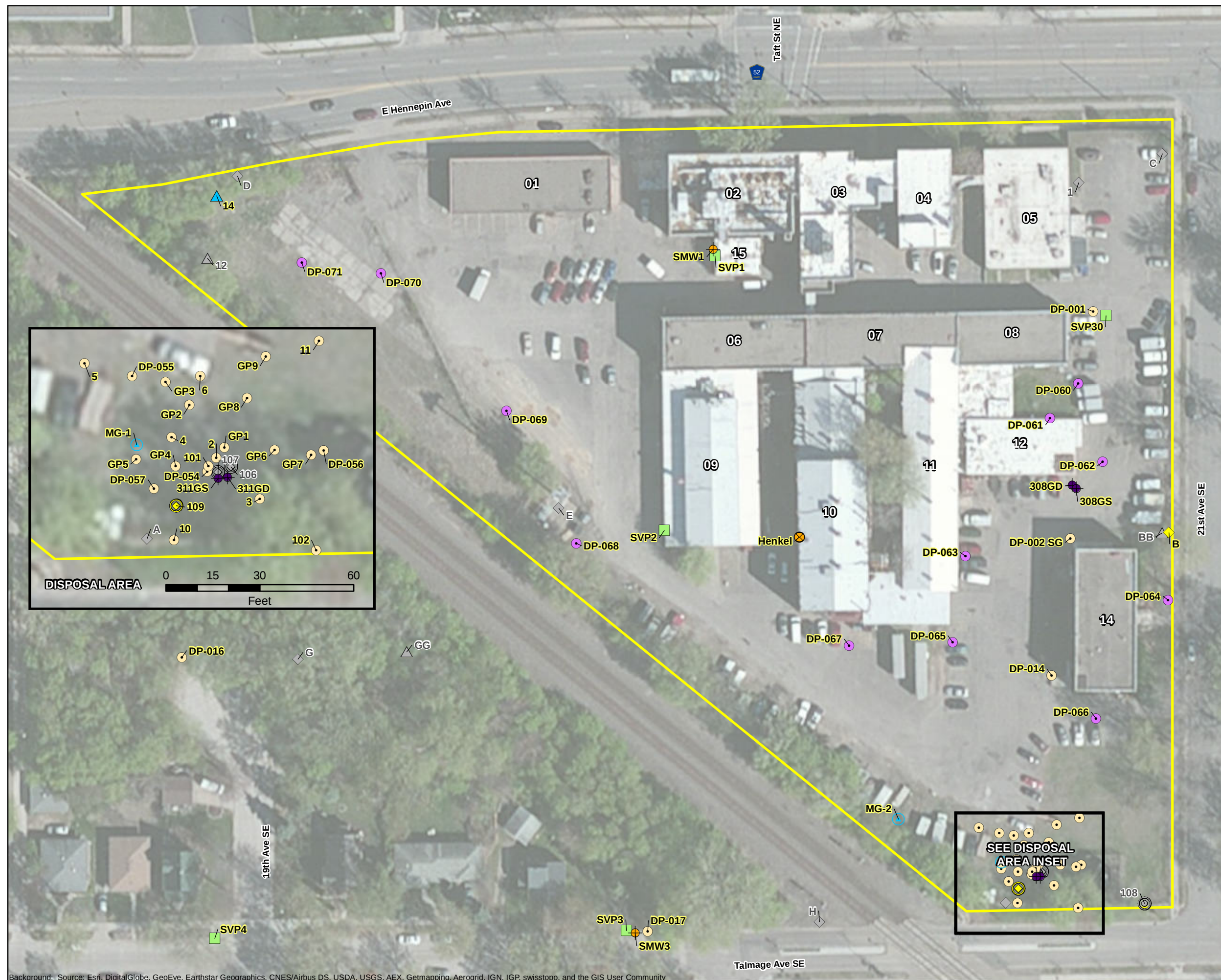


Figure 6
 INVESTIGATION LOCATIONS -
 STUDY AREA
 East Hennepin Avenue Site
 Minneapolis, Minnesota



- 2010 East Hennepin Ave
- VI Pathway Investigation Locations**
 - ◆ Glacial Drift Monitoring Well
 - ◆ Glacial Drift Nested Monitoring Well
 - ◆ Sentinel Monitoring Well
 - Boring
 - Sentinel Vapor Monitoring Port
- Previous Investigation Locations**
 - ◆ Glacial Drift Monitoring Well
 - ⊙ Glacial Drift Pump-Out Well
 - ▲ Magnolia Member Monitoring Well
 - ⊙ Magnolia Member Pump-Out Well
 - Carimona Monitoring Well
 - St. Peter Sandstone Monitoring Well
 - ⊗ Prairie du Chien - Jordan Monitoring Well
 - Pre-VI Pathway Investigation Boring
- Abandoned / Former Wells**
 - ▲ Carimona, Magnolia, and/or Hidden Falls Monitoring Well
 - ◆ Glacial Drift Monitoring Well
 - ⊙ Glacial Drift Pump-Out Well
 - ⊙ Carimona Pump-Out Well
 - 01 Building Number

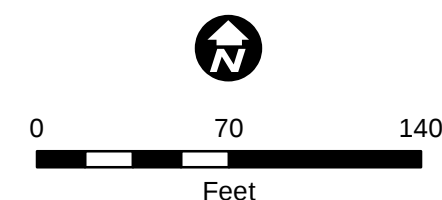
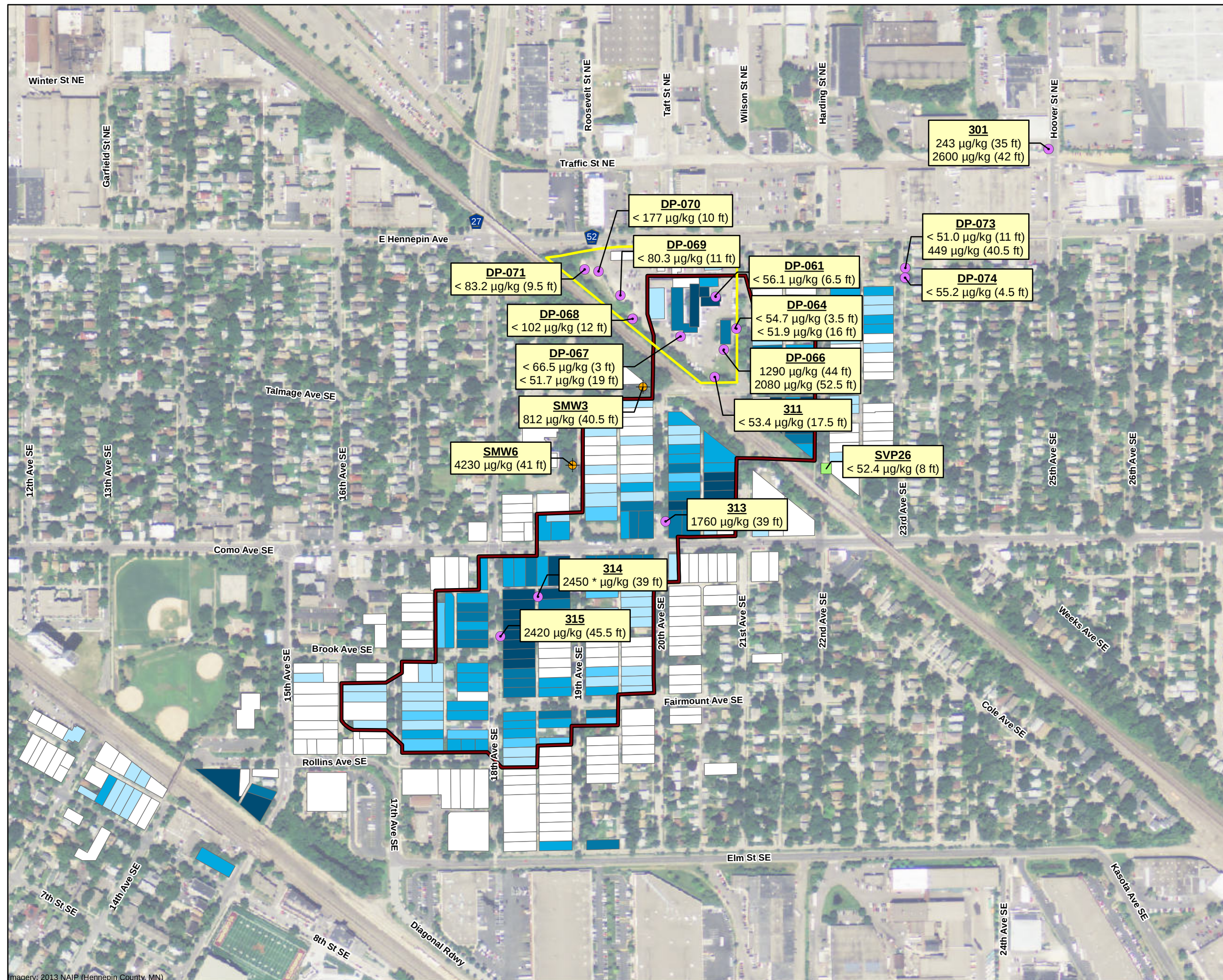
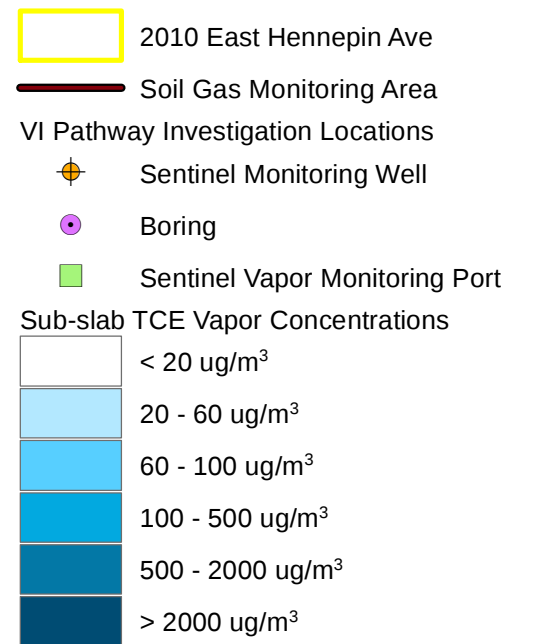


Figure 7

INVESTIGATION LOCATIONS -
SITE
East Hennepin Avenue Site
Minneapolis, Minnesota



Imagery: 2013 NAIP (Hennepin County, MN)



Maximum sub-slab TCE vapor concentration at each building shown.

Sample ID
TCE in Soil (Sample Depth)

Footnotes:
* Estimated value, QA/QC criteria not met.

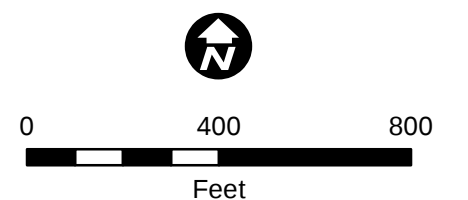


Figure 8

SOIL SAMPLING TCE
RESULTS
East Hennepin Avenue Site
Minneapolis, Minnesota

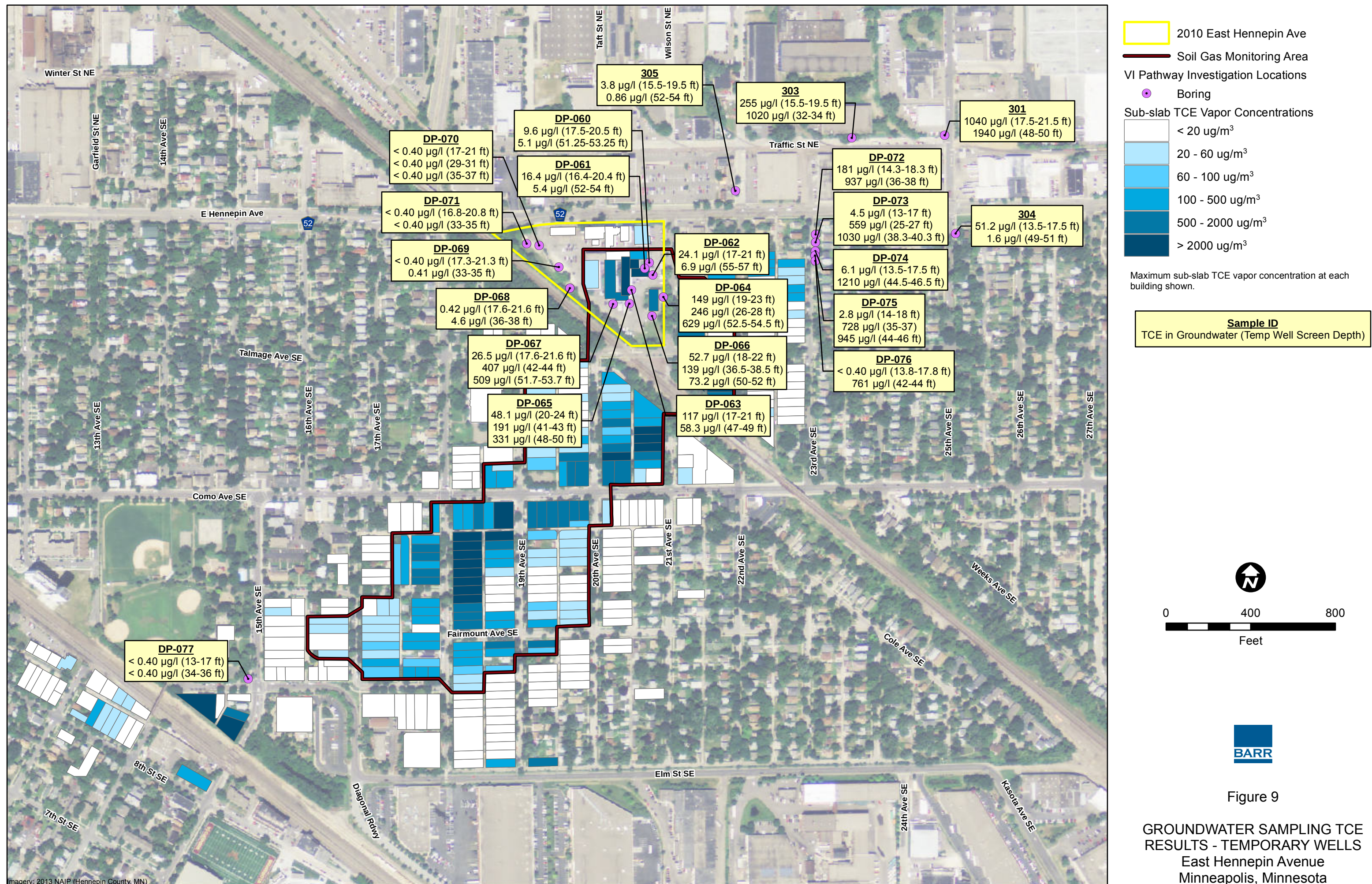
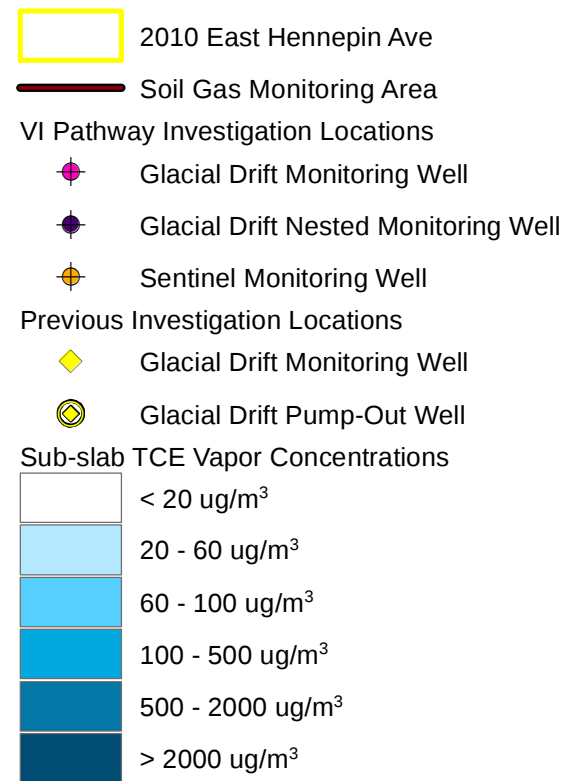
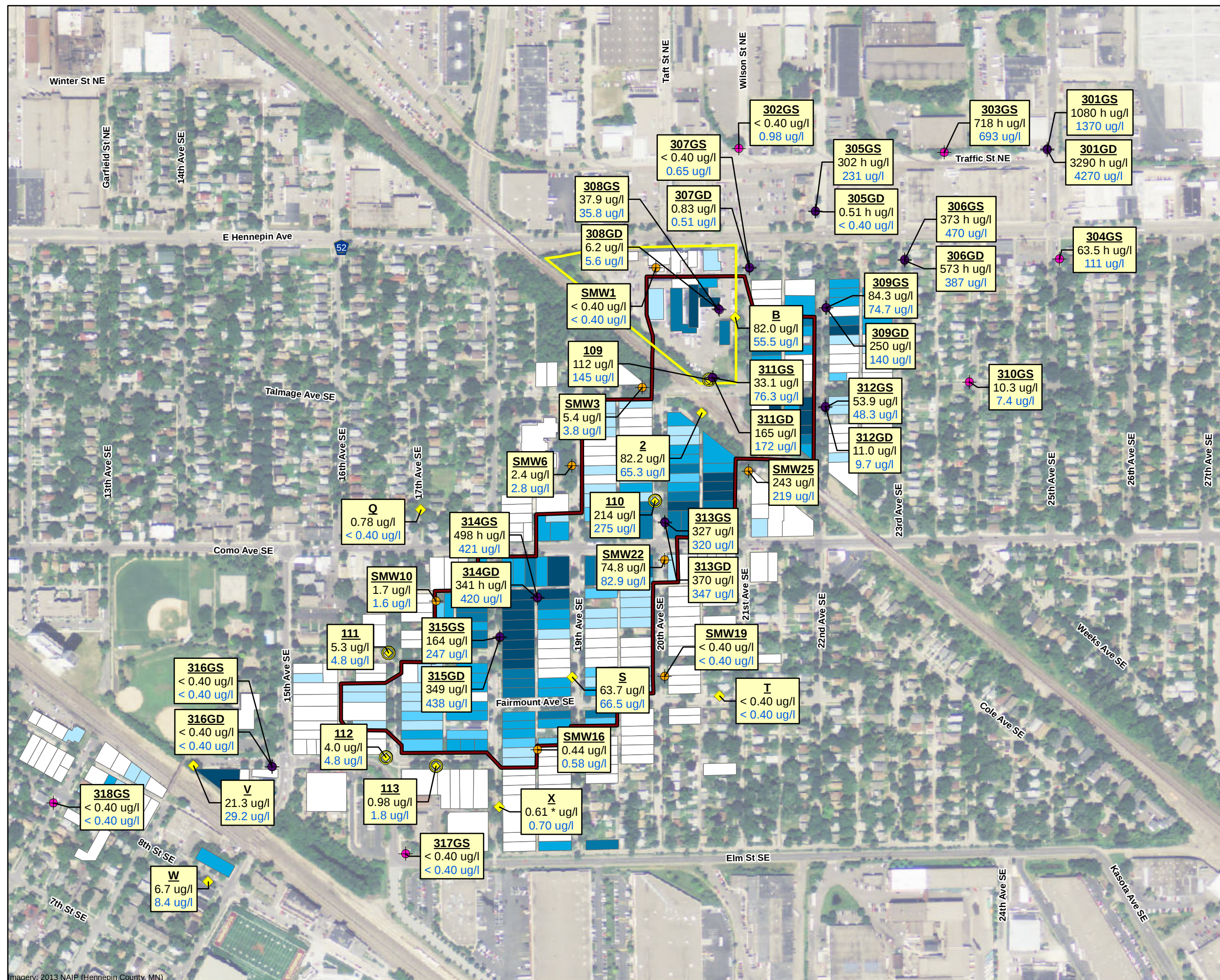


Figure 9

GROUNDWATER SAMPLING TCE RESULTS - TEMPORARY WELLS
East Hennepin Avenue
Minneapolis, Minnesota



Maximum sub-slab TCE vapor concentration at each building shown.

Sample ID
TCE in groundwater, December 2014
TCE in groundwater, March 2015

Footnotes:
* Estimated value, QA/QC criteria not met.
h EPA recommended sample preservation, extraction or analysis holding time was exceeded.

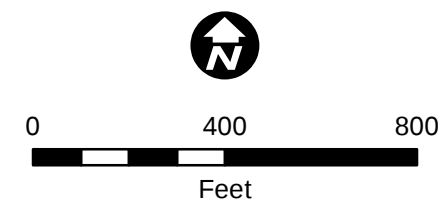


Figure 10

GROUNDWATER SAMPLING TCE RESULTS - PERMANENT WELLS
East Hennepin Avenue Site
Minneapolis, Minnesota

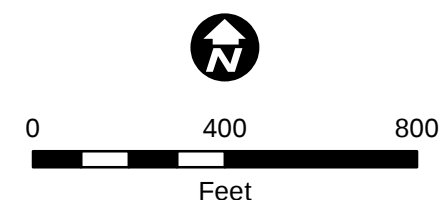
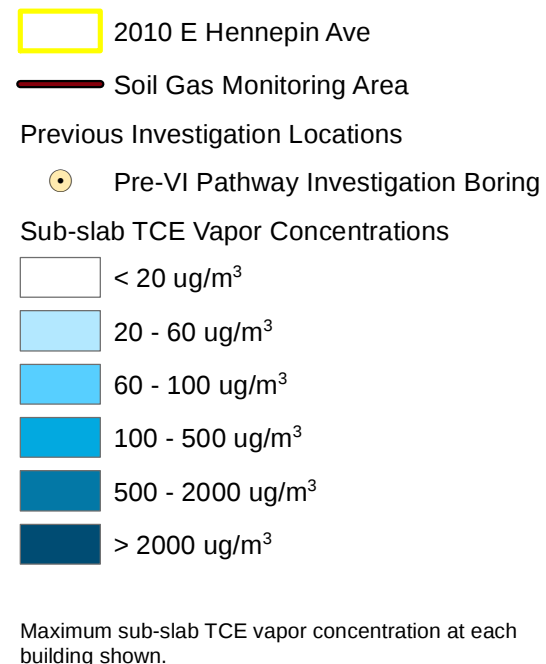
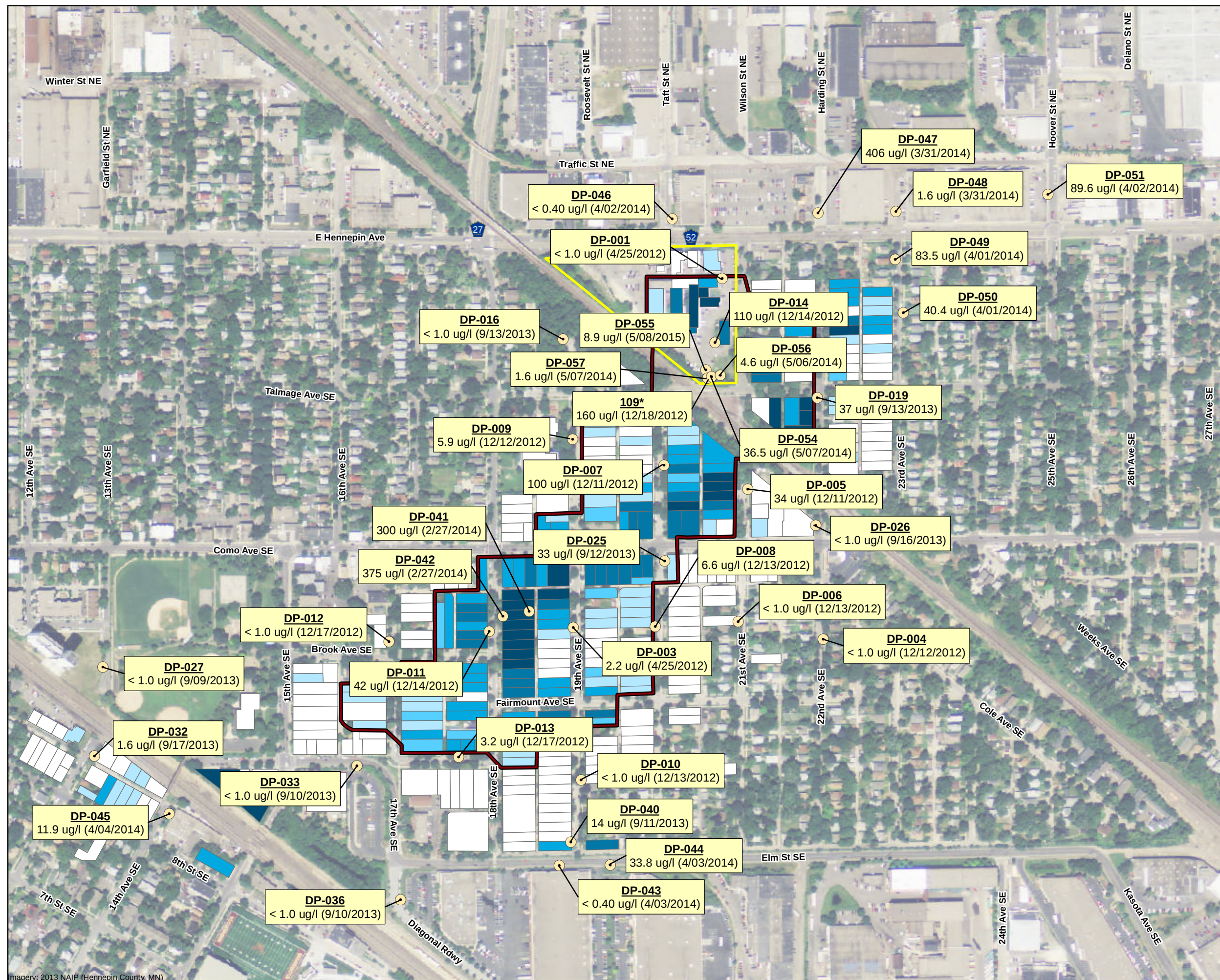
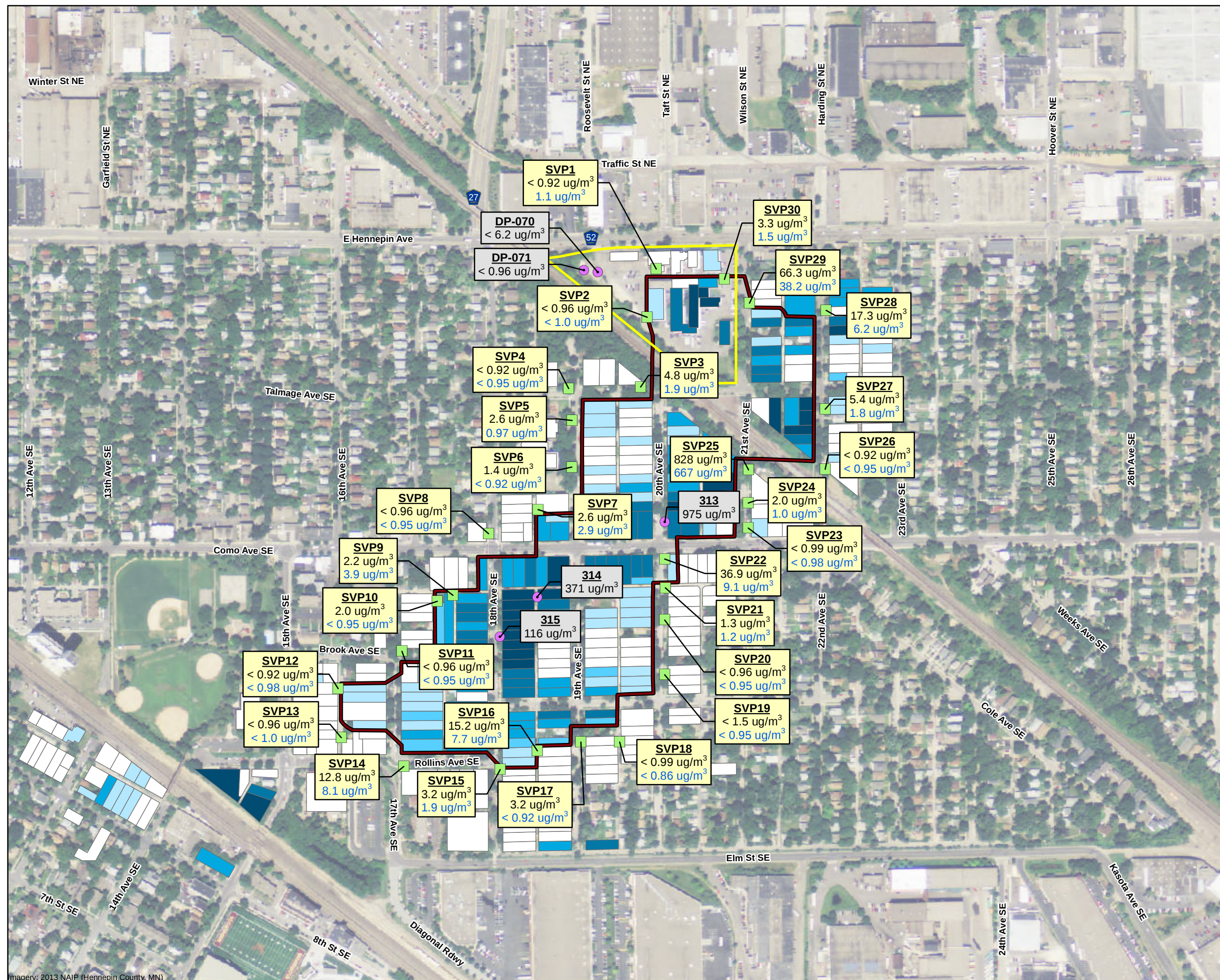
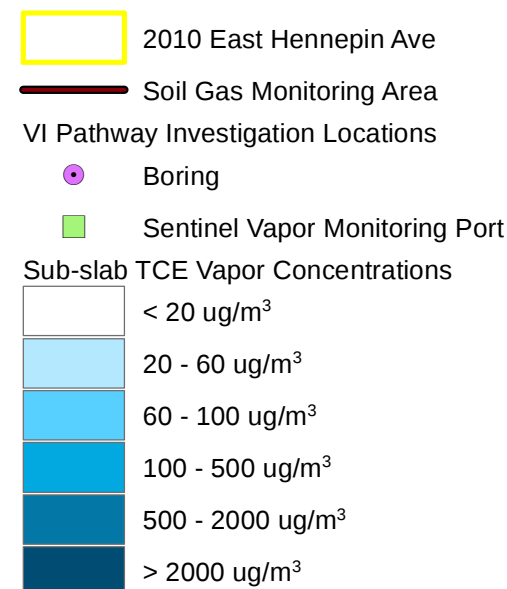


Figure 11

PREVIOUS GROUNDWATER
SAMPLING TCE RESULTS -
TEMPORARY WELLS
East Hennepin Avenue Site
Minneapolis, Minnesota



Imagery: 2013 NAIP (Hennepin County, MN)



Maximum sub-slab TCE vapor concentration at each building shown.

Permanent Vapor Point

Sample ID
TCE in soil gas, December 2014
TCE in soil gas, March 2015

Temporary Vapor Point

Sample ID
TCE in soil gas

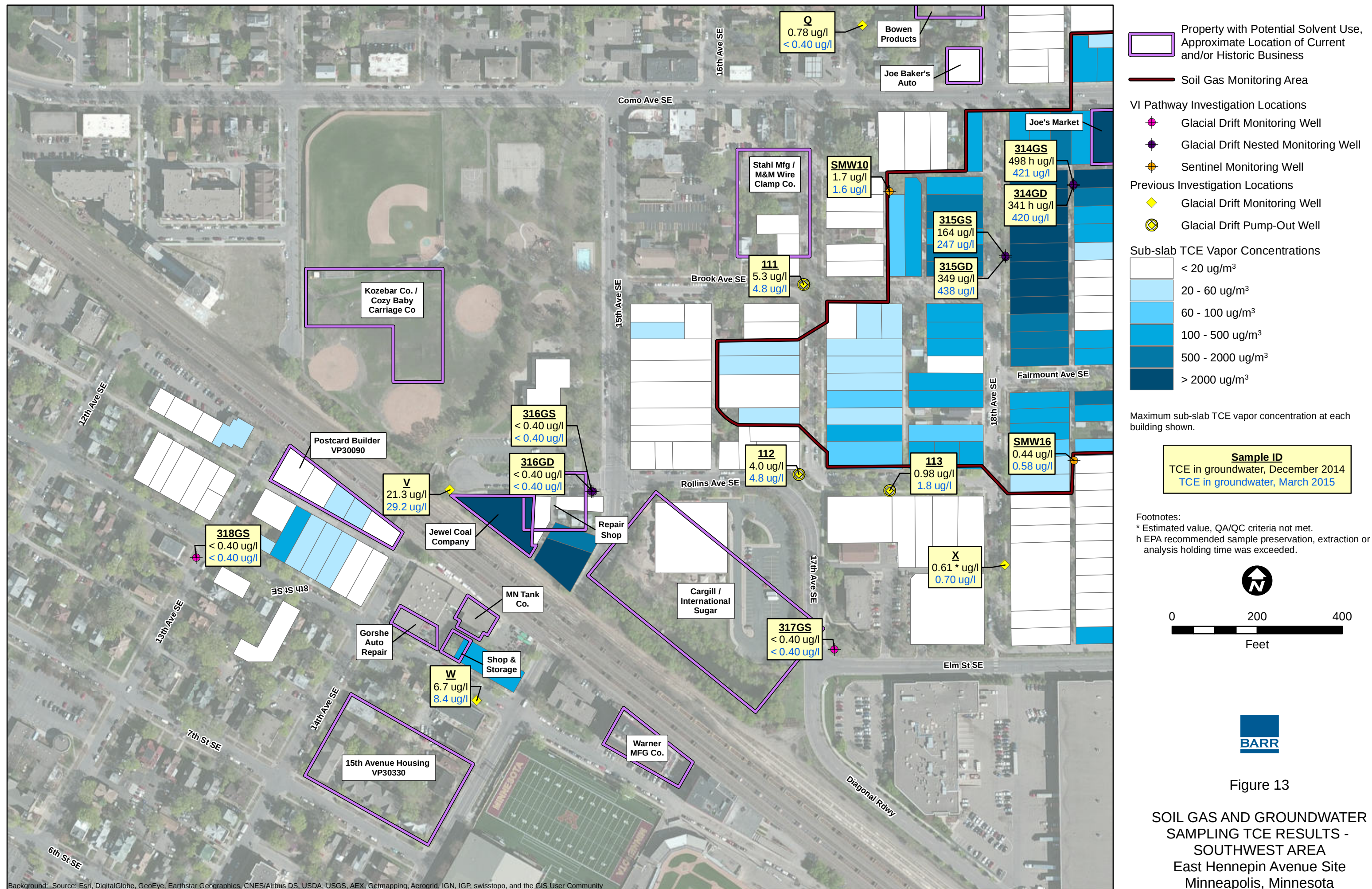


0 400 800
Feet



Figure 12

SOIL GAS SAMPLING TCE
RESULTS
East Hennepin Avenue Site
Minneapolis, Minnesota



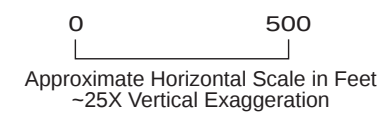
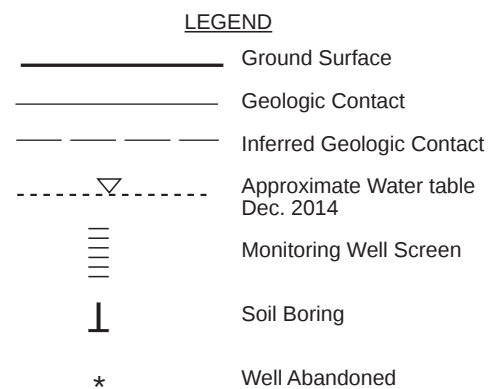
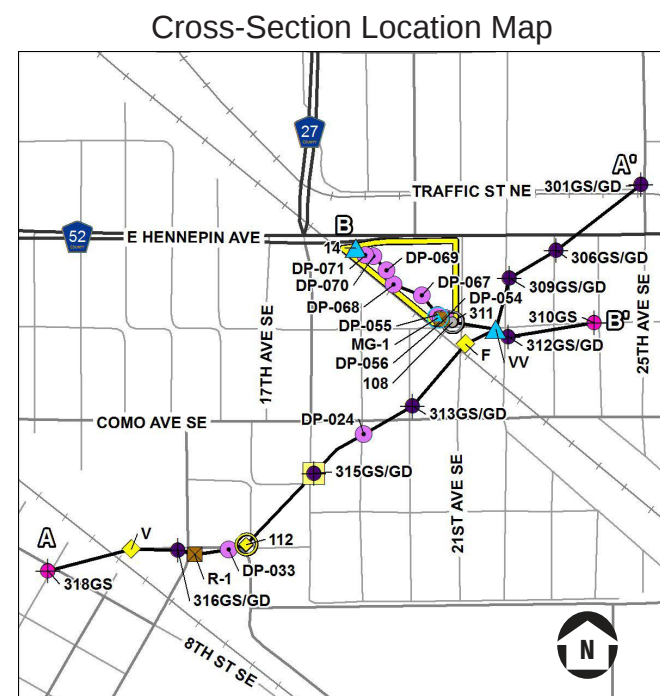
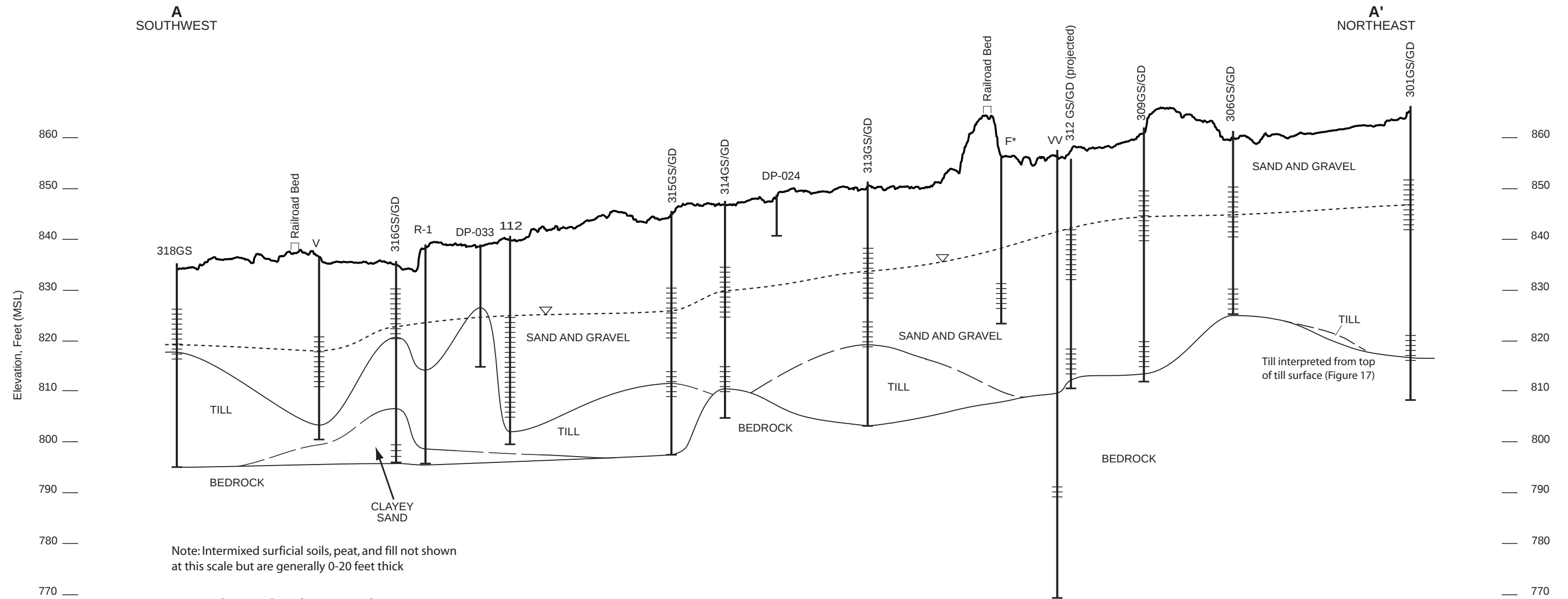
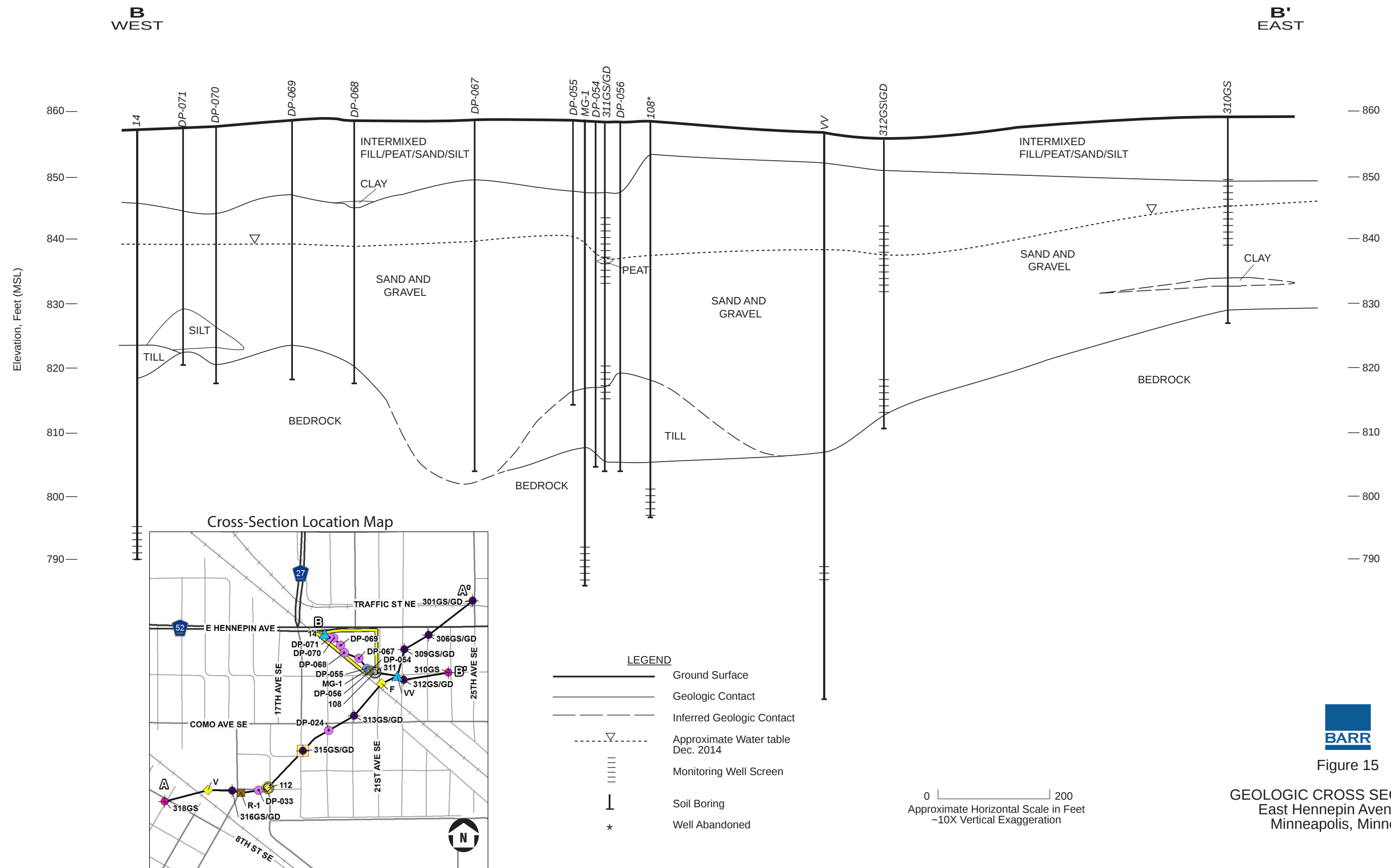
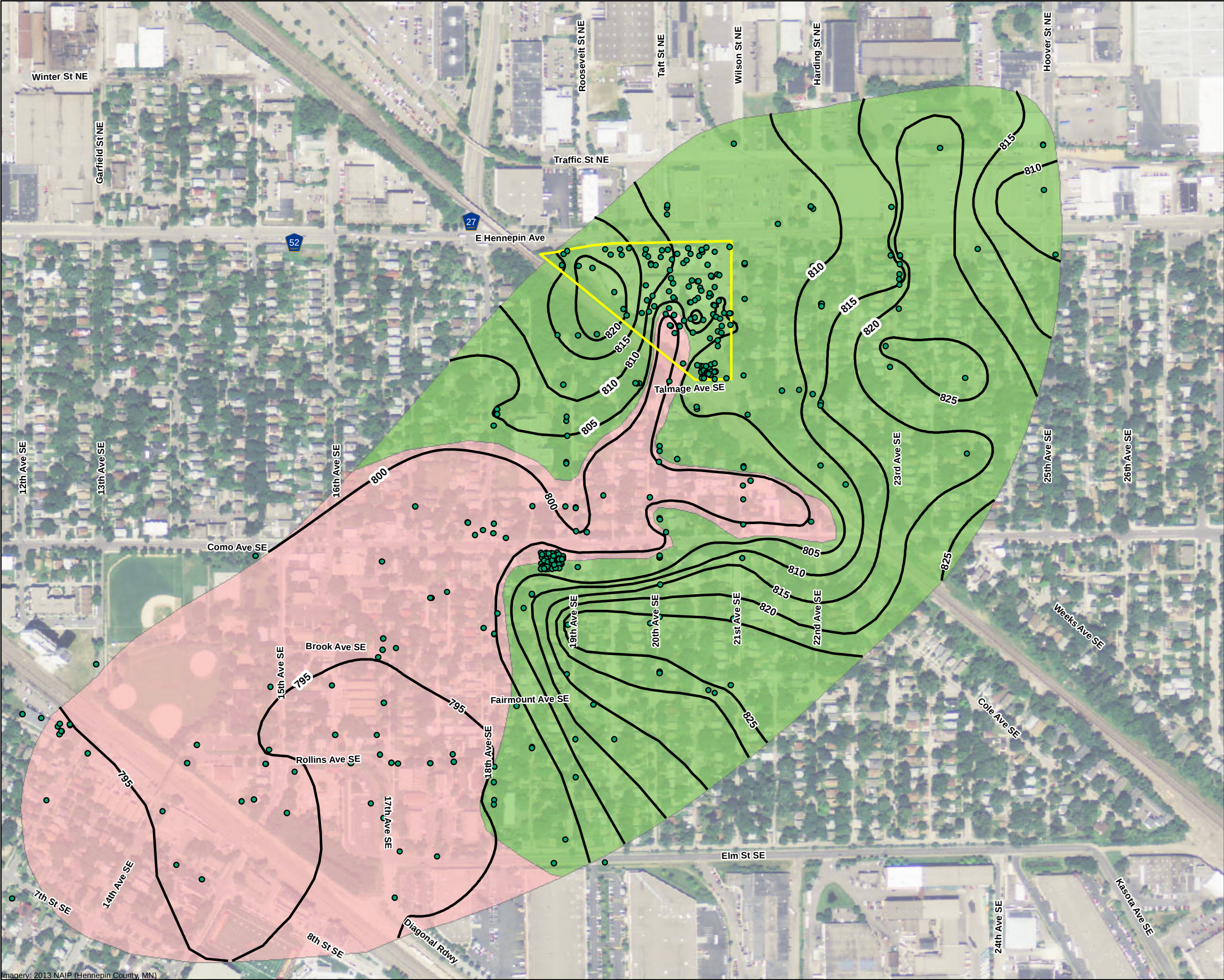


Figure 14
GEOLOGIC CROSS SECTION A-A'
East Hennepin Avenue Site
Minneapolis, Minnesota





- 2010 East Hennepin Ave
- Boring Locations
- Bedrock Topography, feet (MSL)
- Bedrock Geology
 - Shale (Decorah Shale-Unnamed Member)
 - Carbonate (Decorah Shale-Carimona Member; Platteville Formation-Magnolia Member)

Bedrock geology and topography based on borings installed within the Study Area, mapping by the Minnesota Geological Survey, supplemental geologic data from City of Minneapolis, Minnesota County Well Index, Minnesota Department of Transportation, and MPCA files

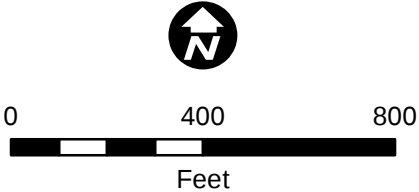
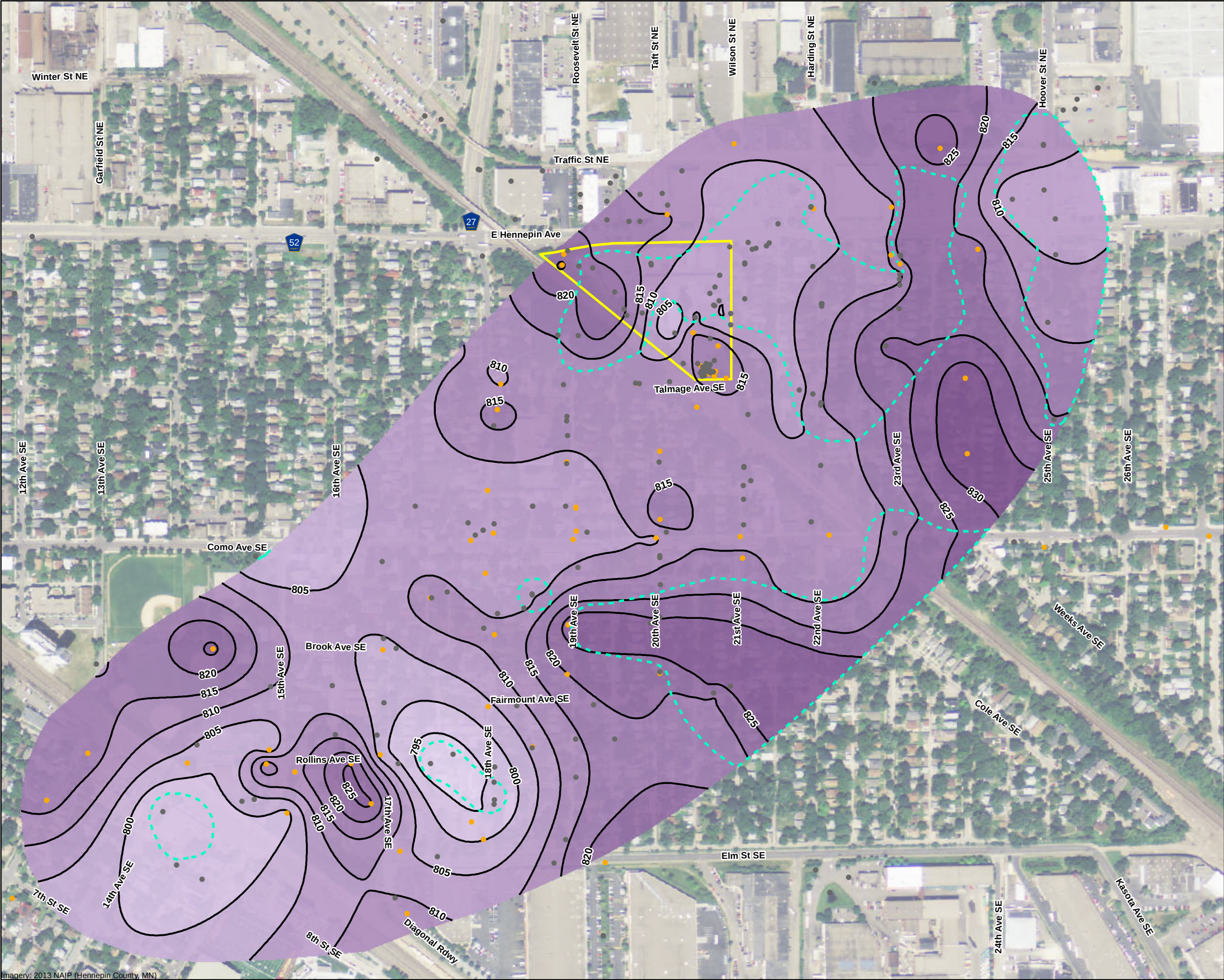


Figure 16

BEDROCK GEOLOGY AND TOPOGRAPHY
East Hennepin Avenue Site
Minneapolis, Minnesota



- 2010 East Hennepin Ave
- Boring Defining Top of Basal Clay/Till
- Other Geologic Boring
- Area Where Glacial Till Not Present
- Base of Glacial Drift

Base of Glacial Drift

- 793 - 795
- 796 - 800
- 801 - 805
- 806 - 810
- 811 - 815
- 816 - 820
- 821 - 825
- 826 - 830
- 831 - 835
- 836 - 840
- 841 - 845
- 846 - 850

Base of glacial drift defined as either the top of the glacial till (where present) or top of bedrock. Clay lenses interpreted within the sand and gravel of the drift not included.

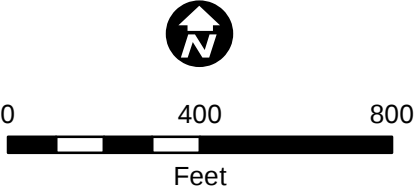


Figure 17

BASE OF GLACIAL DRIFT
East Hennepin Avenue Site
Minneapolis, Minnesota

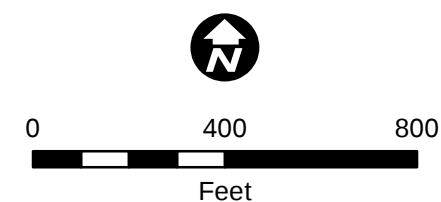
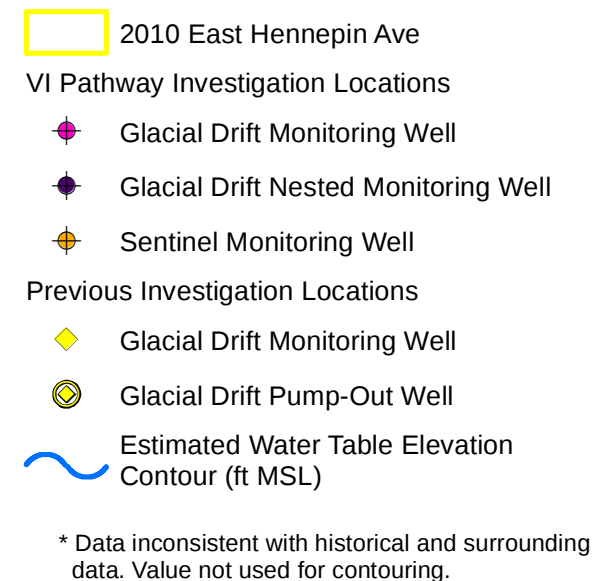
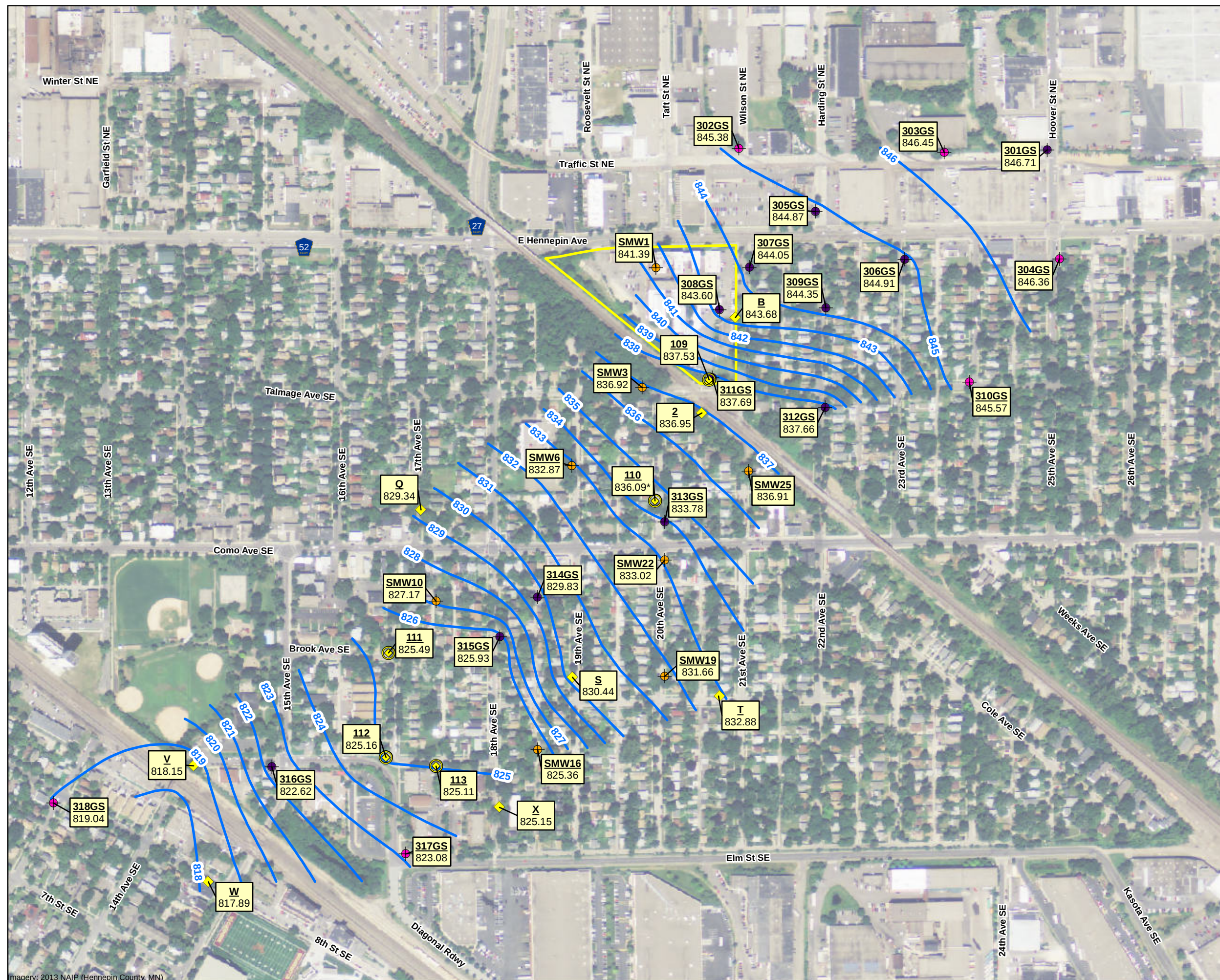
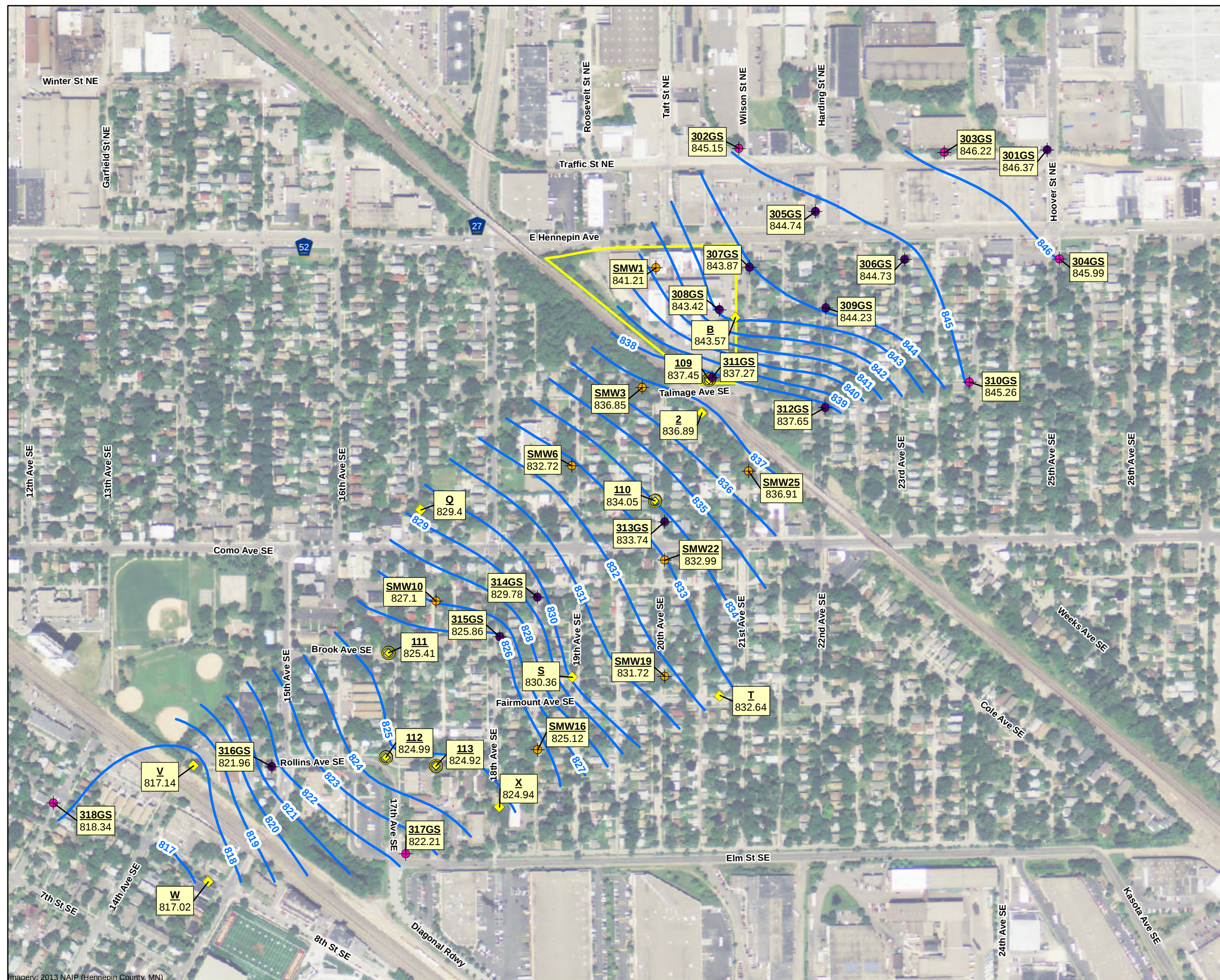


Figure 18

WATER TABLE CONTOURS -
DECEMBER 2014
East Hennepin Avenue Site
Minneapolis, Minnesota



- 2010 East Hennepin Ave
- VI Pathway Investigation Locations
 - Glacial Drift Monitoring Well
 - Glacial Drift Nested Monitoring Well
 - Sentinel Monitoring Well
- Previous Investigation Locations
 - Glacial Drift Monitoring Well
 - Glacial Drift Pump-Out Well
- Estimated Water Table Elevation Contour (ft MSL)

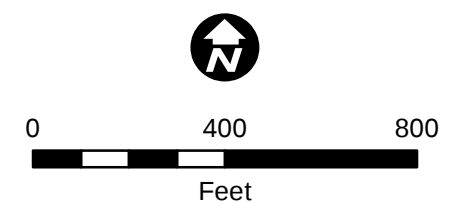
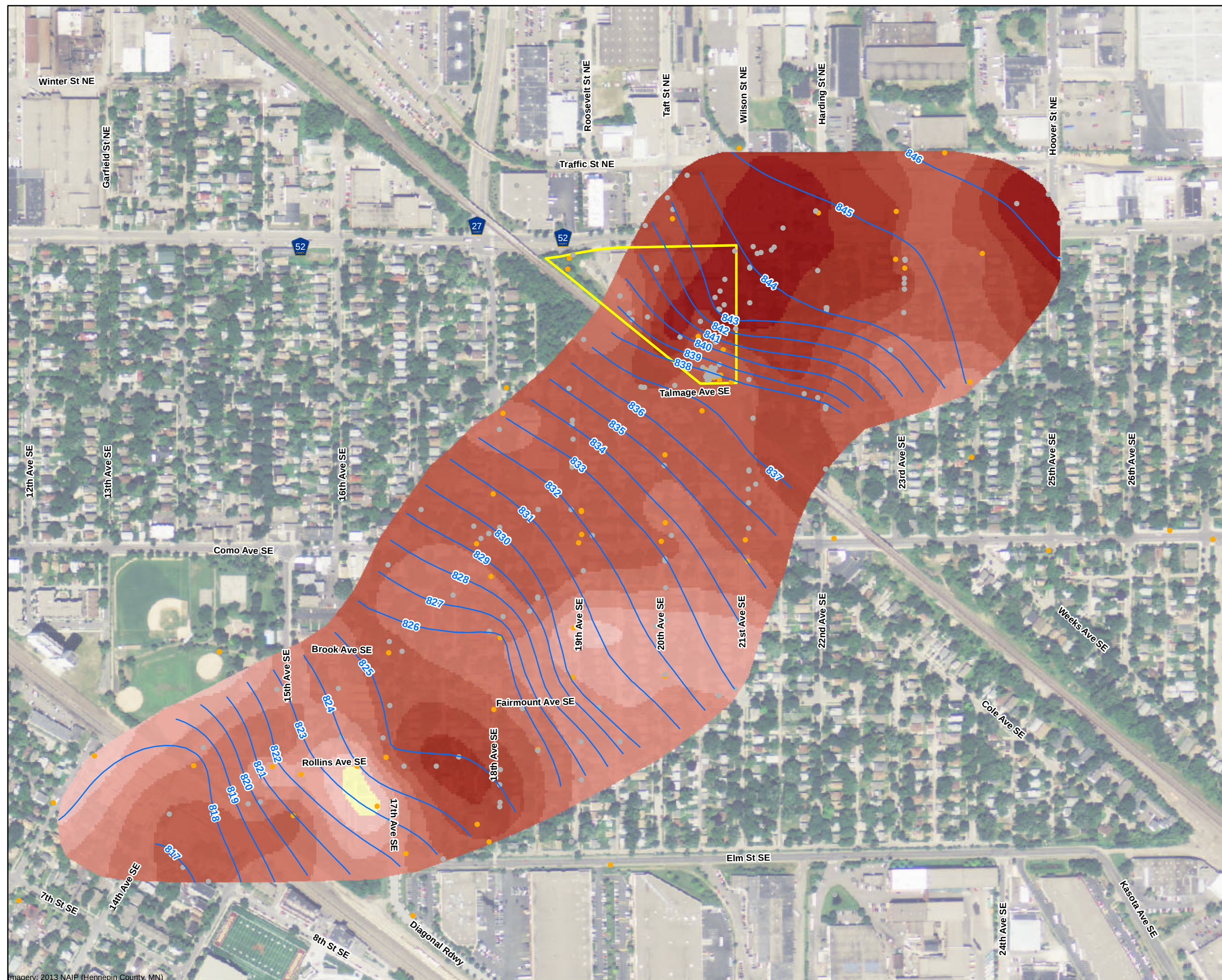


Figure 19

WATER TABLE CONTOURS -
FEBRUARY 2015
East Hennepin Avenue Site
Minneapolis, Minnesota



Imagery: 2013 NAIP (Hennepin County, MN)

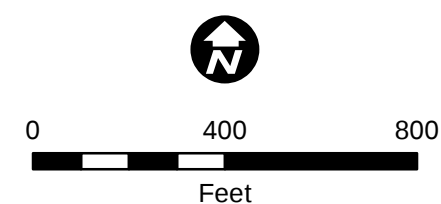
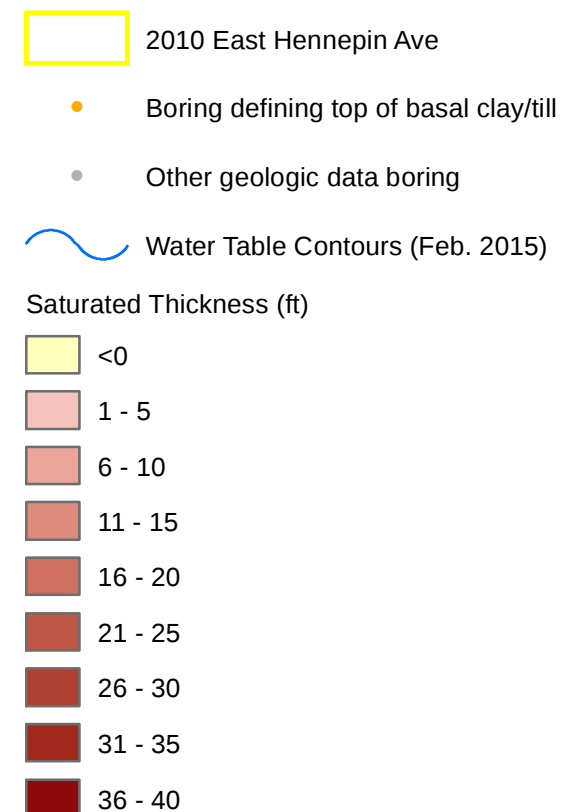


Figure 20

SATURATED THICKNESS -
GLACIAL DRIFT
East Hennepin Avenue Site
Minneapolis, Minnesota

