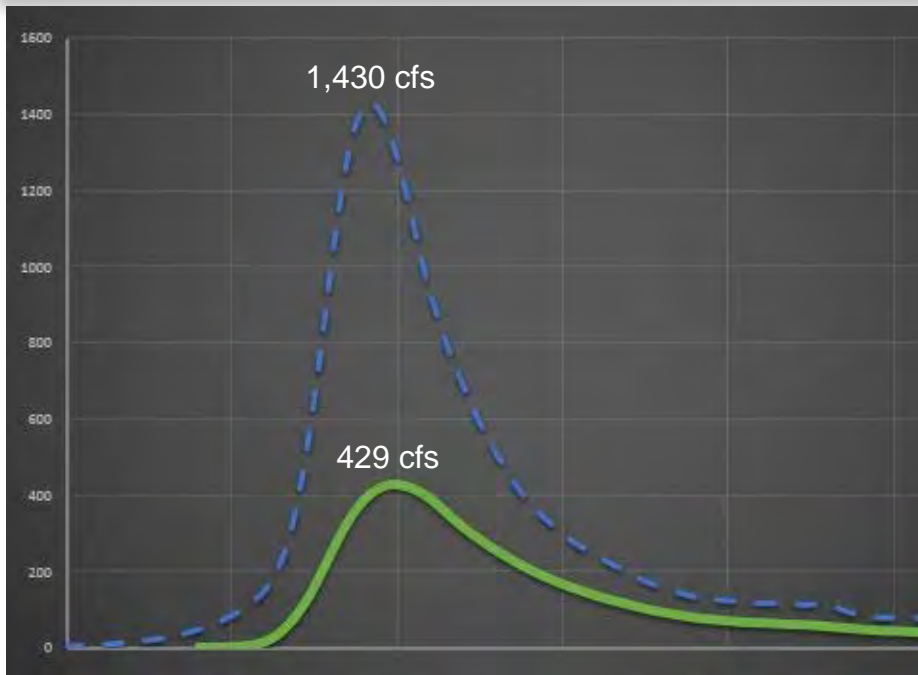


Ebner Coulee Floodway Remapping Study

LOMR Phase: Preliminary Mapping Results

January 2020

Fact Sheet



Calibrated 1-percent probability peak discharge rates for Ebner Coulee (FEMA – blue line; SEH Updated-green line)

2017 Event Calibration Results

Looking in detail at the July 2017 Event.

Additional survey information and modeling has been completed to develop a better estimate of the peak flow rates experienced as a result of the July 2017 6.26" rainfall. Based on the hydraulic analysis, it was determined that the flow rate in Ebner Coulee corresponding to the 2017 event was approximately 300 cfs. Using this information, the hydrologic characteristics for the watersheds within the Ebner Coulee study area were updated, or calibrated, such that a 6.26" rainfall produced a discharge in the model of 300 cfs. As a comparison, previous modeling based on the FEMA FIS flood flows result in flow rates of approximately 996 cfs for this same rainfall event.

Project Update

This continuation of the Ebner Coulee Floodway Remapping Study includes the finalization of the model calibration and mapping for the area north of Farnam Street utilizing collected high water information from the July 2017 storm.

Included in the study is an update of the modeling and floodplain mapping for the Ebner Coulee floodplain area located south of Farnam Street (area between Farnam Street and State Road).

The results depicted in this Fact Sheet are preliminary and a first step in providing the results to the city for concurrence to move forward with the formal Letter of Map Revision (LOMR) submittal.

A Summary Technical Letter will formally document the analysis and results to support the City Overview and Concurrence sign-off and submission to the Wisconsin DNR for review. Once Wisconsin DNR approval is received, the formal submission to FEMA will be made.



Building a Better World
for All of Us®

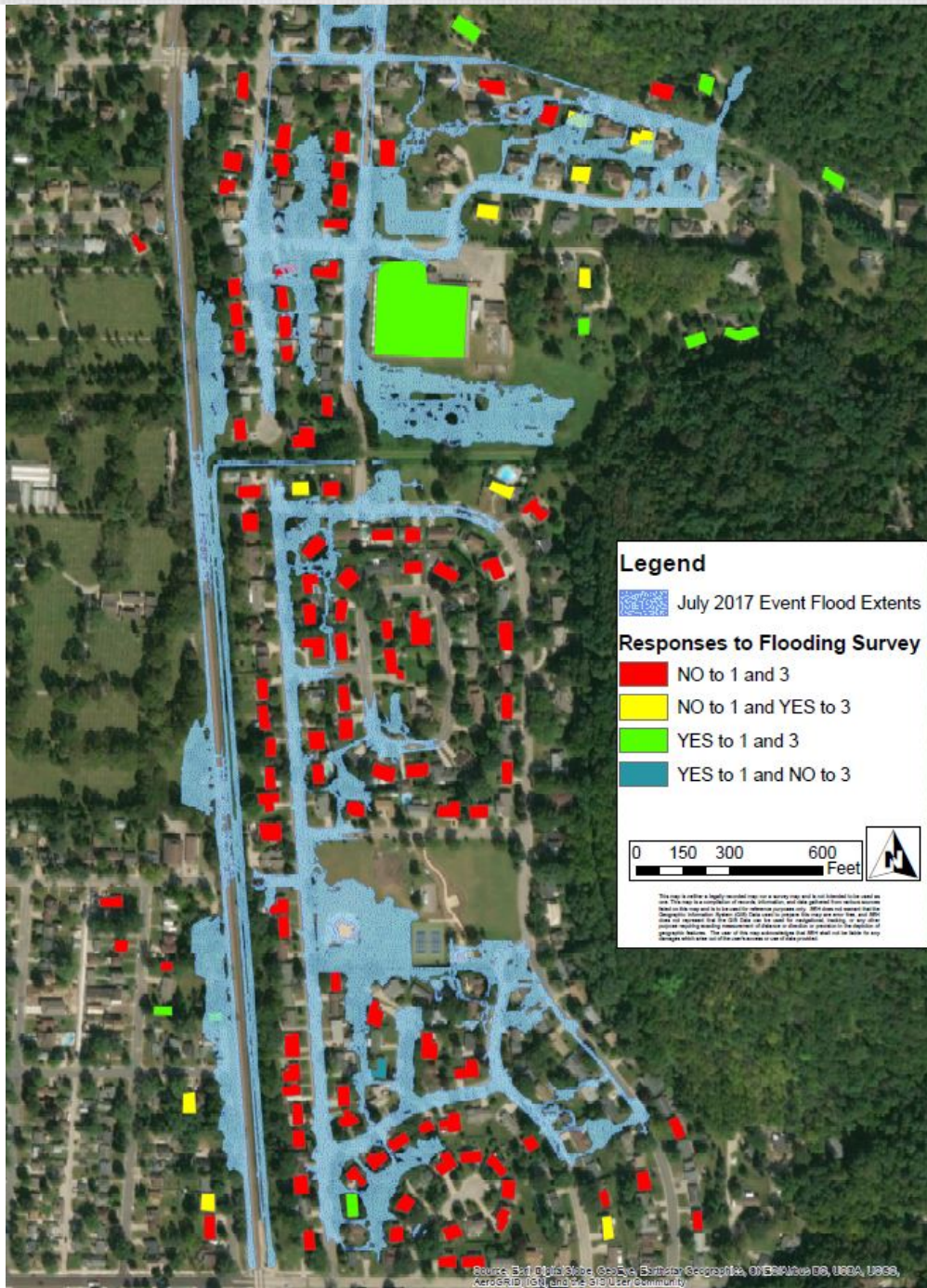
Engineers | Architects | Planners | Scientists

Thank you to all of you!

The resident flooding survey provided key information needed to calibrate the modeling to reflect the results observed during the 2017 event. This event was estimated to be approximately equal to a 50-year rainfall event.

Select Survey Questions:

1. Did you receive any flooding related impacts or damages to your property or residence from the July 19-21 of 2017 event?
3. Did you observe any flowing water through your yard or a neighbor's yard?



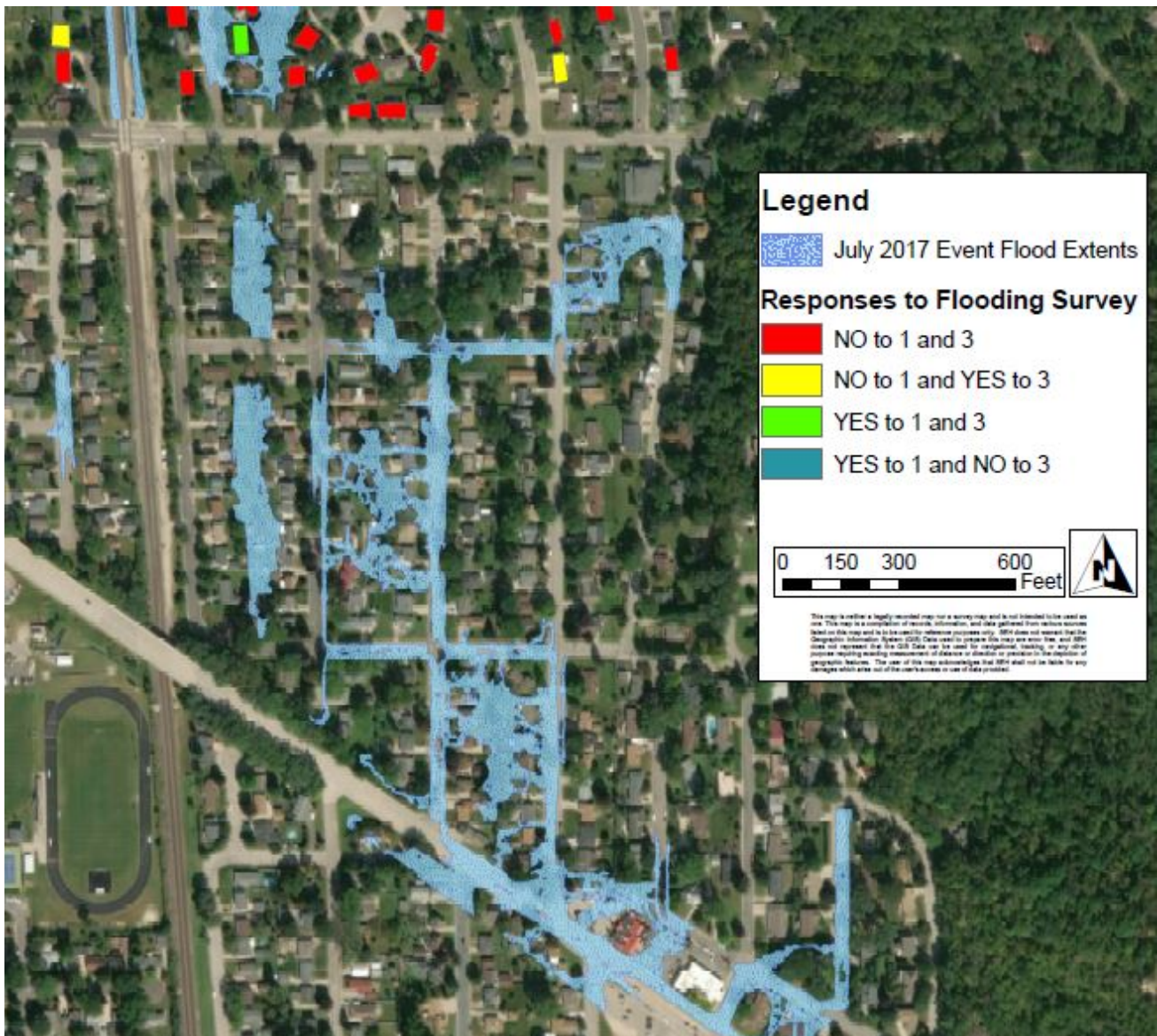
2017 Event calibration model results versus Flooding Survey Responses.

Area South of Farnam Street

Reviewing the calibrated model results for the 2017 Storm.

Utilizing the calibrated watershed hydrologic parameters developed for the area North of Farnam Street, a hydrologic and hydraulic model was used to predict the flooding resulting from the 6.26" rainfall for the area to the south of Farnam Street. The resultant flooding extents are depicted in the figure below.

July 2017 Storm - Do these flood extents look familiar?



2017 Event calibration model results south of Farnam Street.

The July 2017 storm produced the highest peak runoff in the watershed in the last 20 years and serves as a key event to producing more representative flood inundation mapping for the Ebner Coulee Area.

Proposed 1-Percent Floodplain Mapping

Full page figures are provided at the end of this fact sheet which depict the proposed 1-percent floodplain mapping for the study area. Additional refinement may be necessary to ensure all FEMA LOMR standards are met and subsequent to FEMA review, but it is not anticipated that the overall mapping will vary significantly from these figures.

Summary of Potential FIRM Modifications

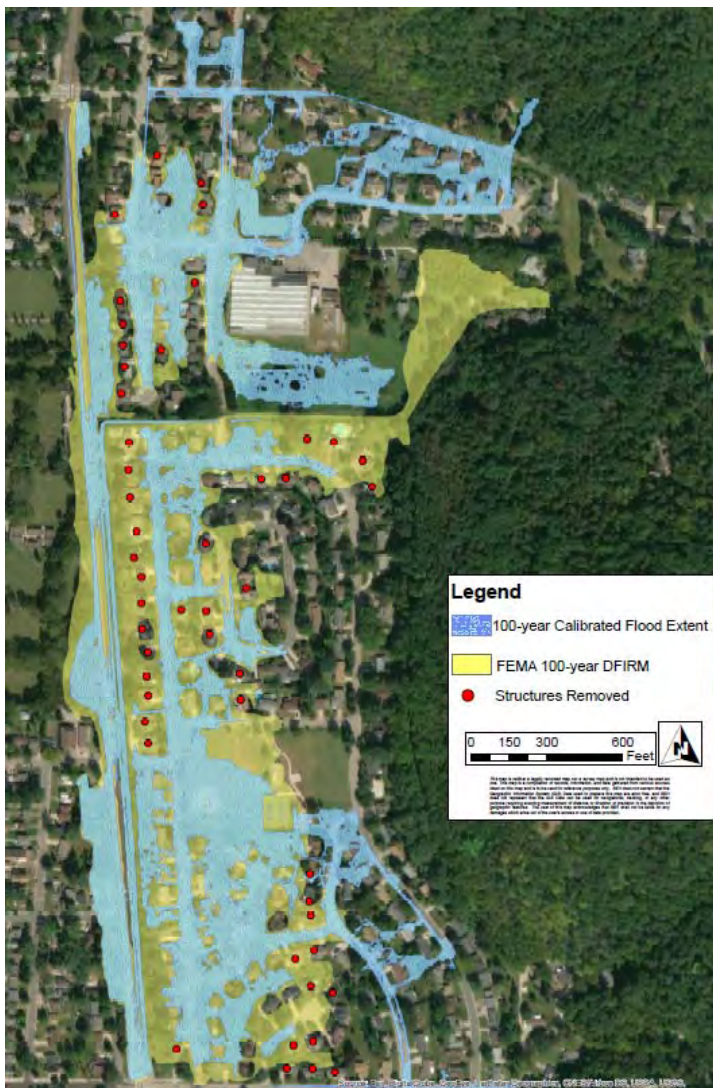
Potential residential structures removed from the 1-percent floodplain and mandatory flood insurance purchase requirements:

North of Farnam Street

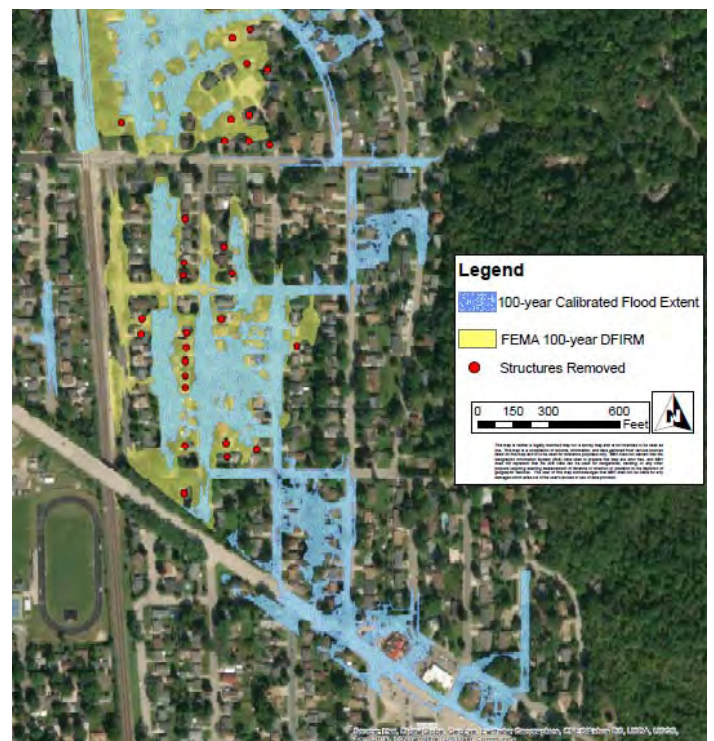
- 39 structures south and east of the channelized portion.
- 11 structures north of the East-West channelized portion.

South of Farnam Street

- 19 structures.



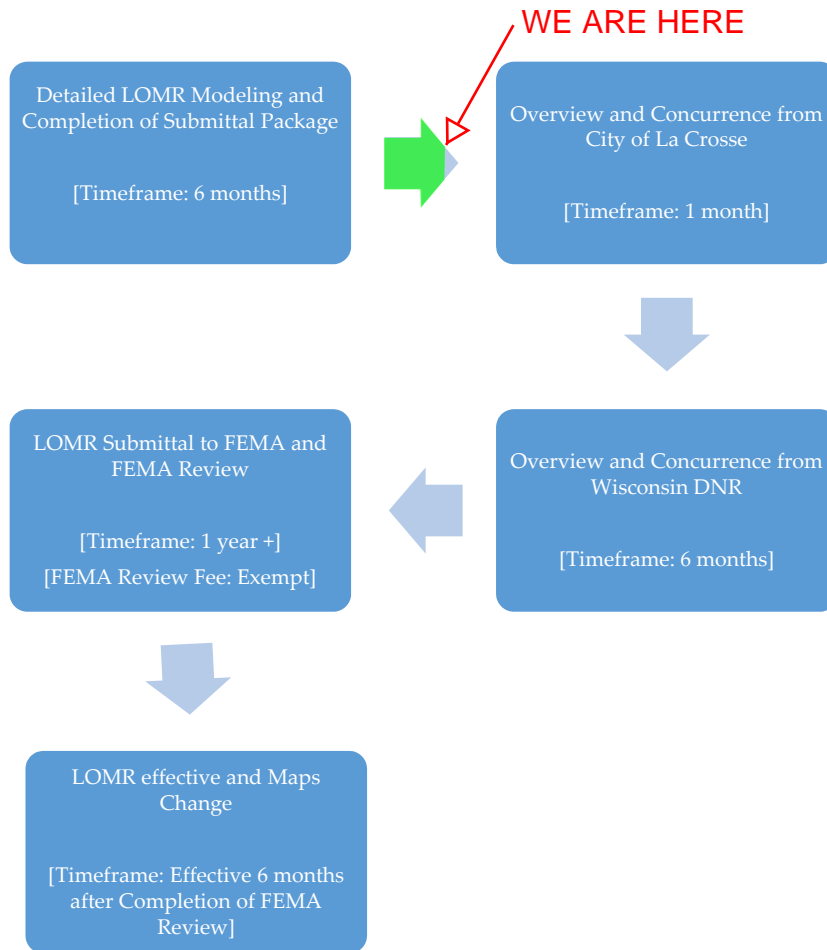
100-year Flood Extents north of Farnam Street.



100-year Flood Extents south of Farnam Street.

Where are we at in the process and What is the Expected time line?

LOMR Process Outline



The information contained in this fact sheet was prepared by Short Elliott Hendrickson, Inc. as part of the Ebner Coulee Floodway FIRM Mapping Study.

Questions Regarding this Study:

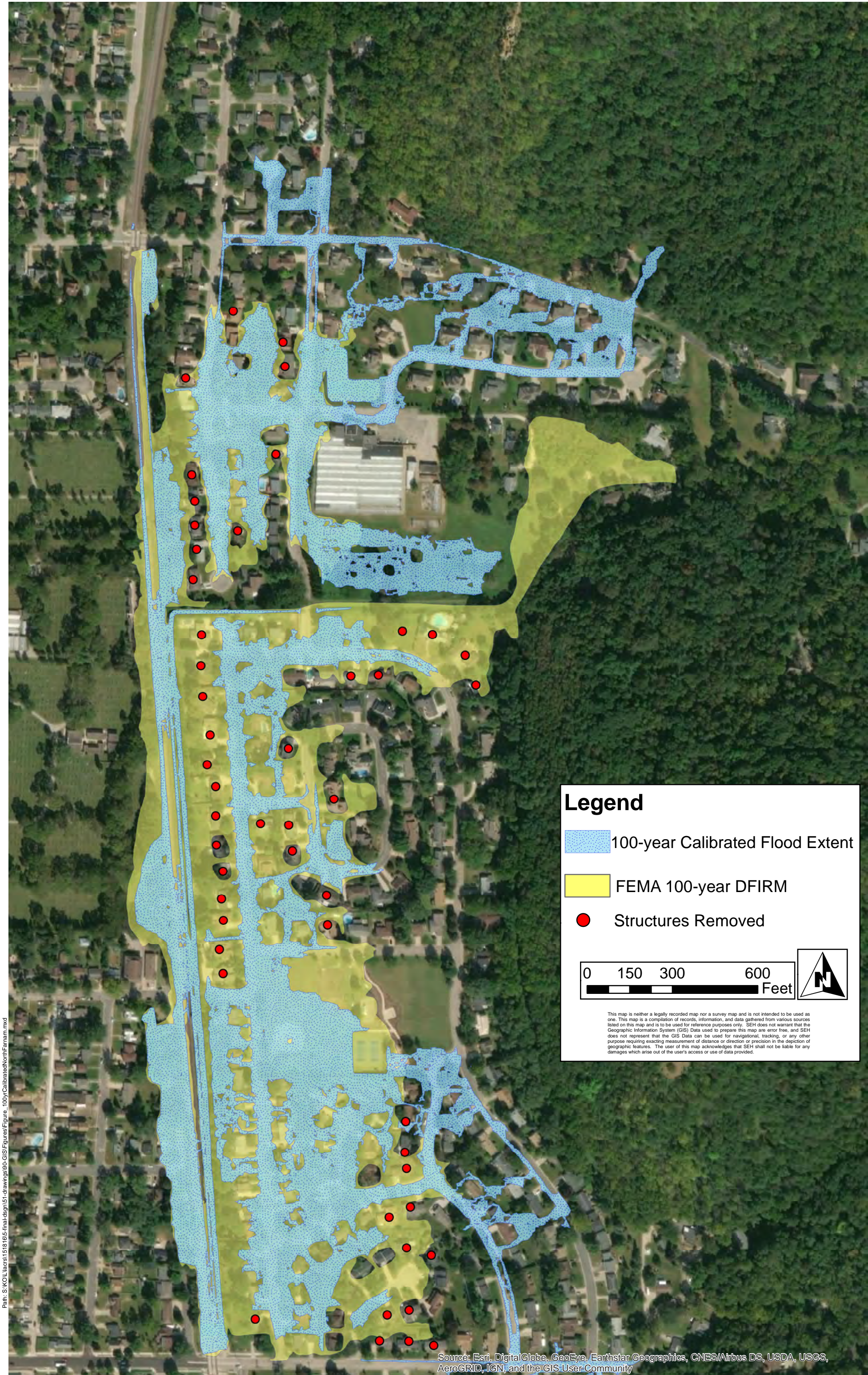
Mr. Bernard Lenz – City of La Crosse; Lenzb@cityoflacrosse.org; 608.789.7364

Mr. Brad Woznak – SEH Inc.; bwoznak@sehinc.com; 651.490.2125

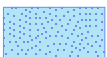




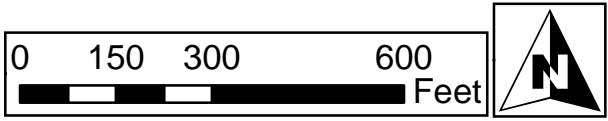
Building a Better World
for All of Us®

Engineers | Architects | Planners | Scientists



Legend

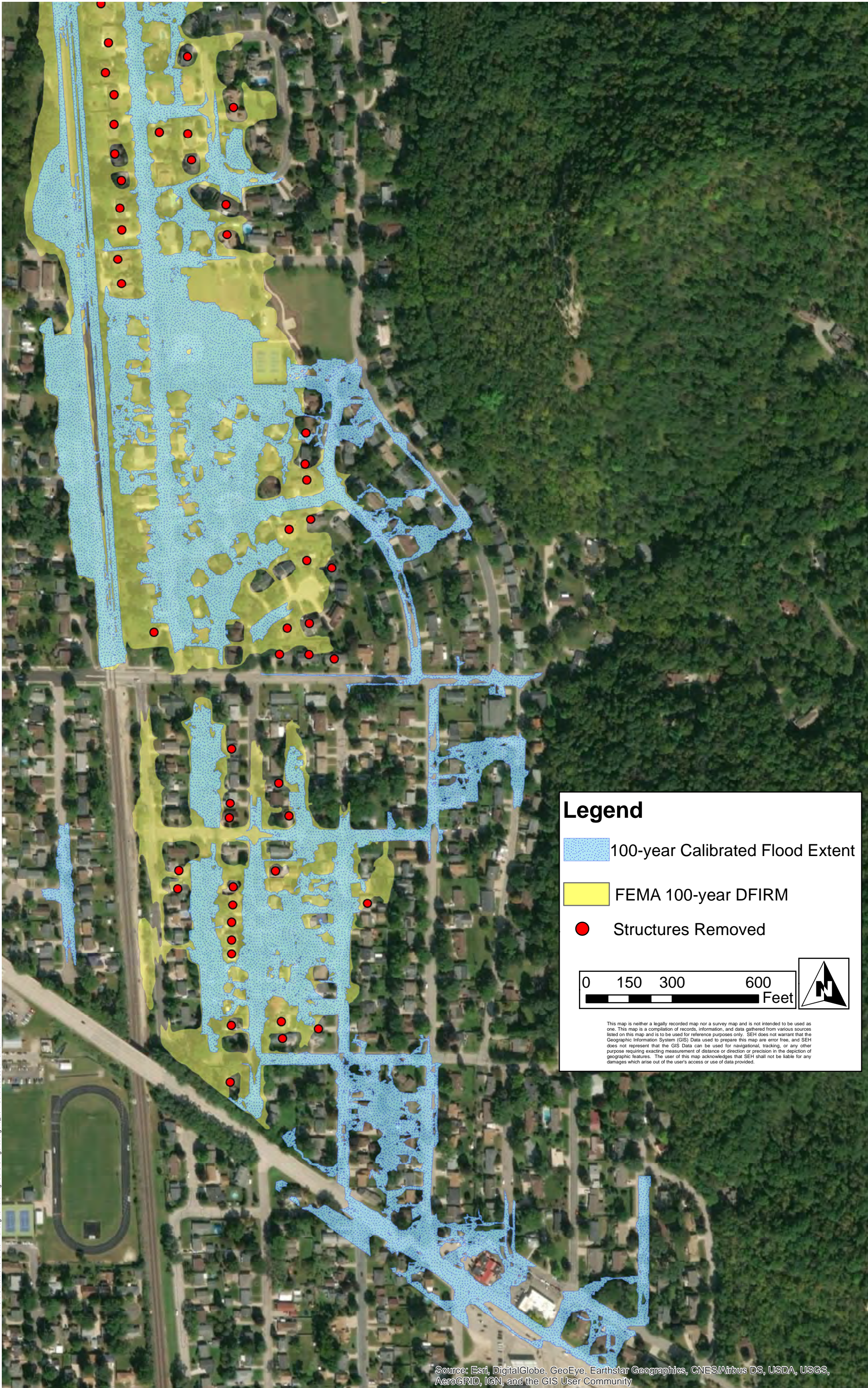
-  100-year Calibrated Flood Extent
-  FEMA 100-year DFIRM
-  Structures Removed



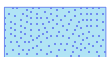


This map is neither a legally recorded map nor a survey map and is not intended to be used as one. This map is a compilation of records, information, and data gathered from various sources listed on this map and is to be used for reference purposes only. SEH does not warrant that the Geographic Information System (GIS) Data used to prepare this map are error free, and SEH does not represent that the GIS Data can be used for navigational, tracking, or any other purpose requiring exacting measurement of distance or direction or precision in the depiction of geographic features. The user of this map acknowledges that SEH shall not be liable for any damages which arise out of the user's access or use of data provided.


Path: S:\KOL\lacs1518165-final-dsgn\51-drawings\90-GIS\Figures\Figure_100yrCalibratedNorthFarm.mxd

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



Legend

-  100-year Calibrated Flood Extent
-  FEMA 100-year DFIRM
-  Structures Removed

0 150 300 600 Feet 

This map is neither a legally recorded map nor a survey map and is not intended to be used as one. This map is a compilation of records, information, and data gathered from various sources listed on this map and is to be used for reference purposes only. SEH does not warrant that the Geographic Information System (GIS) Data used to prepare this map are error free, and SEH does not represent that the GIS Data can be used for navigational, tracking, or any other purpose requiring exacting measurement of distance or direction or precision in the depiction of geographic features. The user of this map acknowledges that SEH shall not be liable for any damages which arise out of the user's access or use of data provided.

Path: S:\KOL\lacs11518165-final-dsgn\51-drawings\90-GIS\Figures\Figure_2017_Calibrated_South_Farm.mxd

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community