

Palestine Corridor

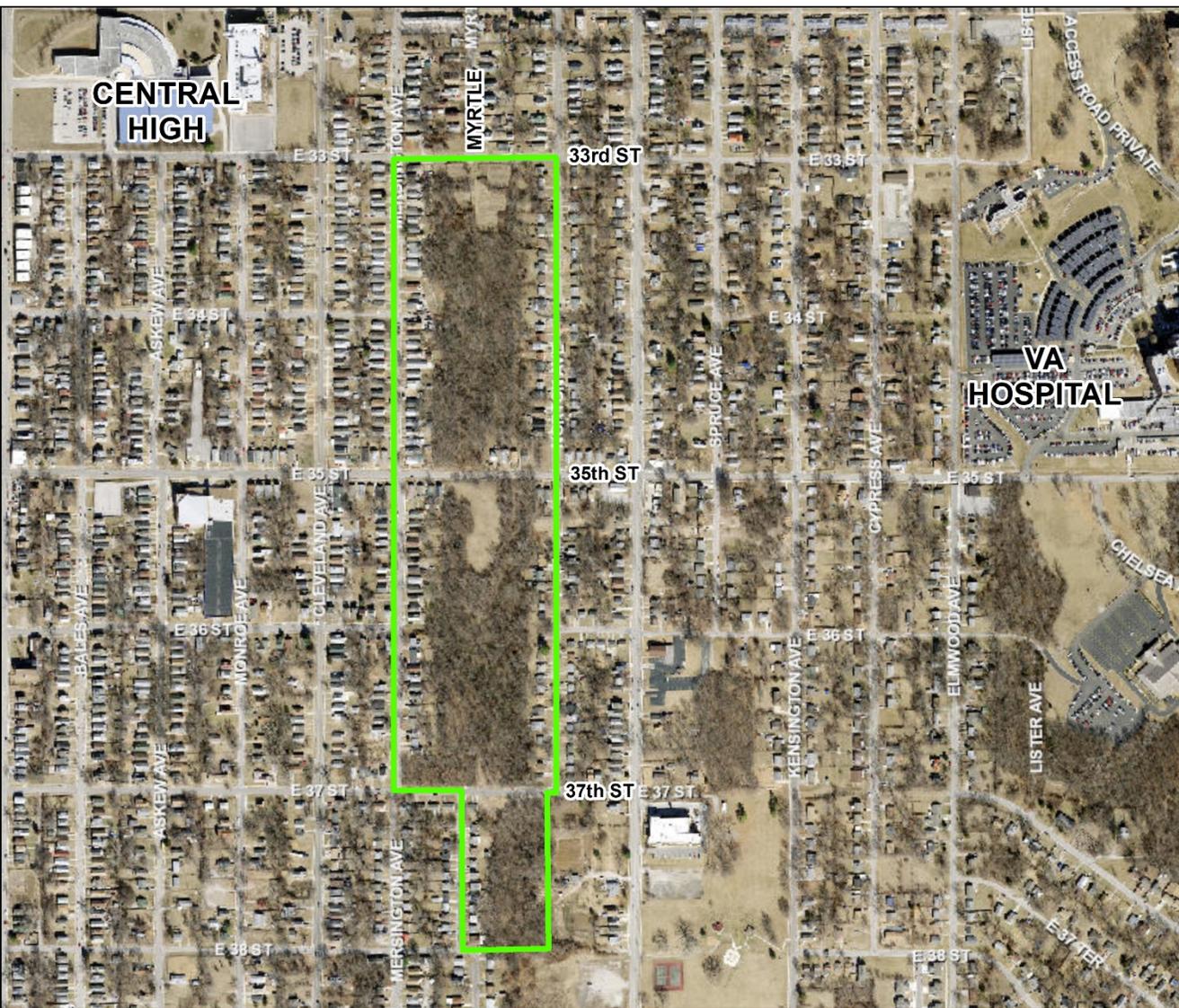
2020 TREE INVENTORY

FUNDED BY

MO DEPT OF CONSERVATION TREE RESOURCE
IMPROVEMENT & MAINTENANCE (TRIM) GRANT

MANAGED BY

HEARTLAND CONSERVATION ALLIANCE



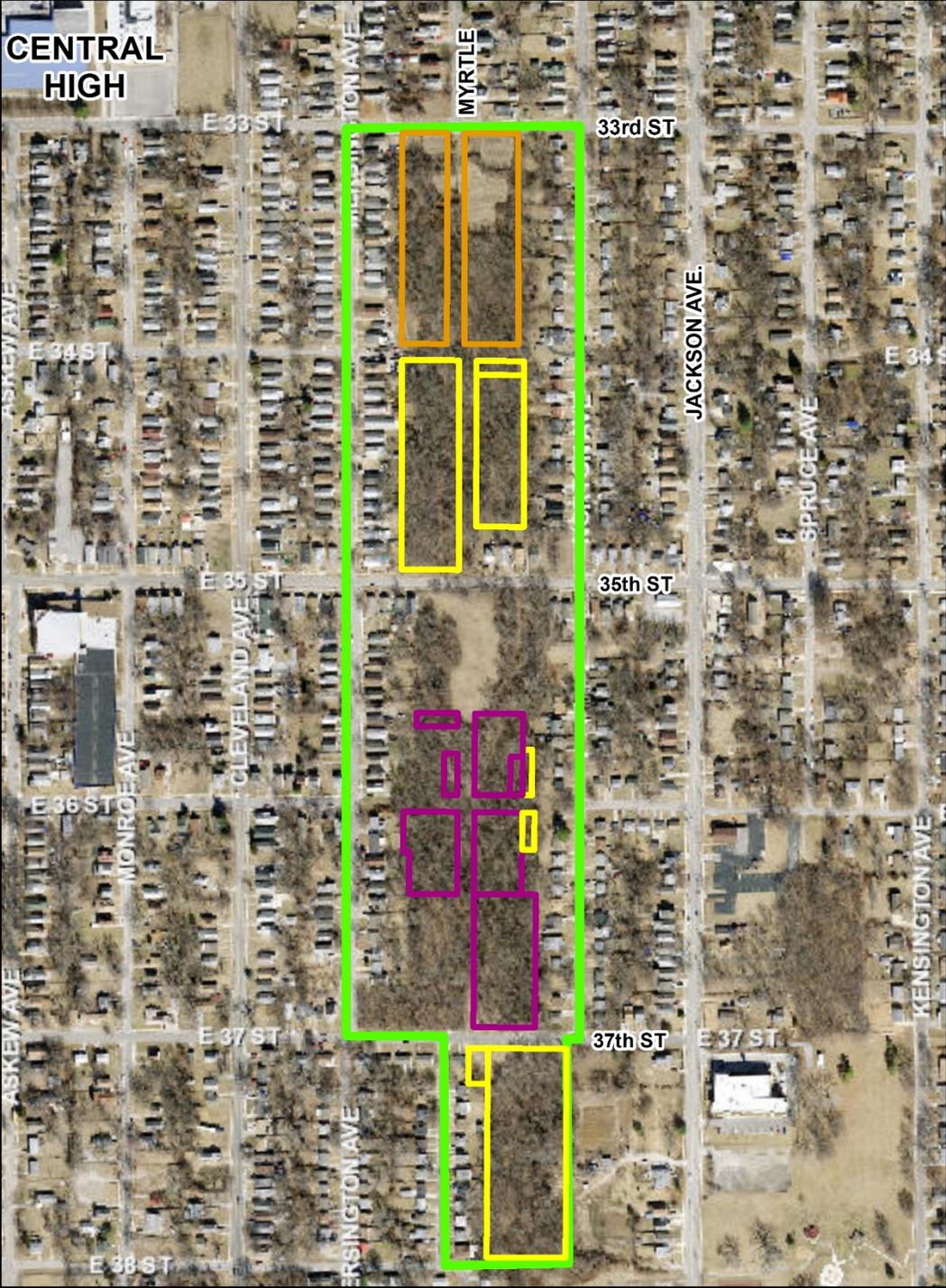
Palestine Corridor

CORRIDOR

18 ACRES OF PUBLIC LAND

HISTORY

MYRTLE AVENUE NEVER DEVELOPED



CENTRAL
HIGH

Palestine Corridor

Lot Ownership by Public Agencies

Yellow Lots

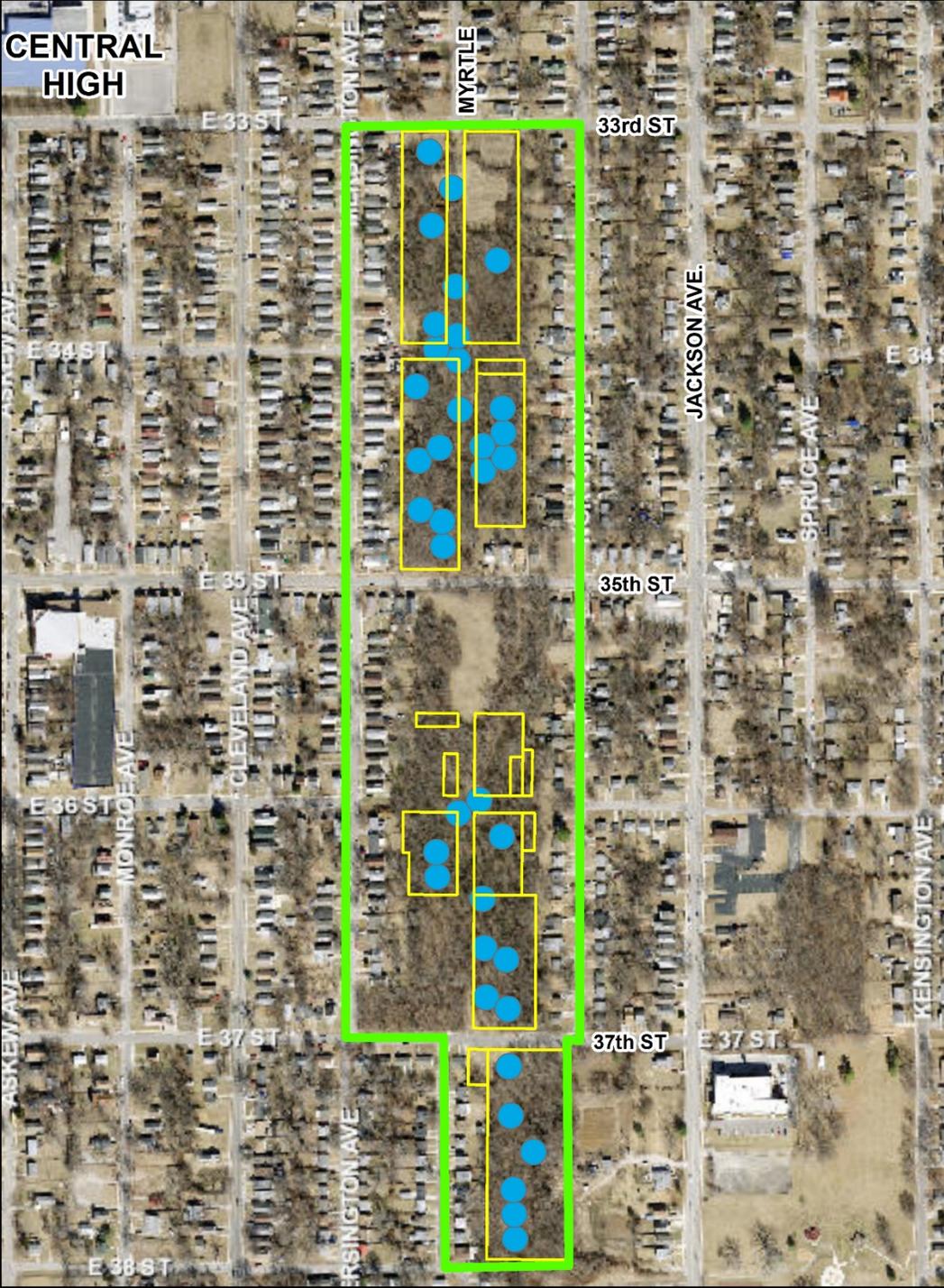
Land Bank of Kansas City, MO

Orange Lots

City of Kansas City Property & Ins Div

Magenta Lots

Kansas City MO Homesteading Authority



Inventory Process

37 Plot Samples
20% of corridor inventoried

Minimum Tree Size
Only trees with a 5 inch diameter or larger were inventoried

Field Work
Molly Gosnell, GISP, Mapping & Data Management

Nick Goergen, ISA Certified Arborist



2020 Palestine Corridor MDC...

Created: Feb 26, 2020

Inventory Process

Data Collection

- Used i-Tree's Mobile Data Collection to collect tree data

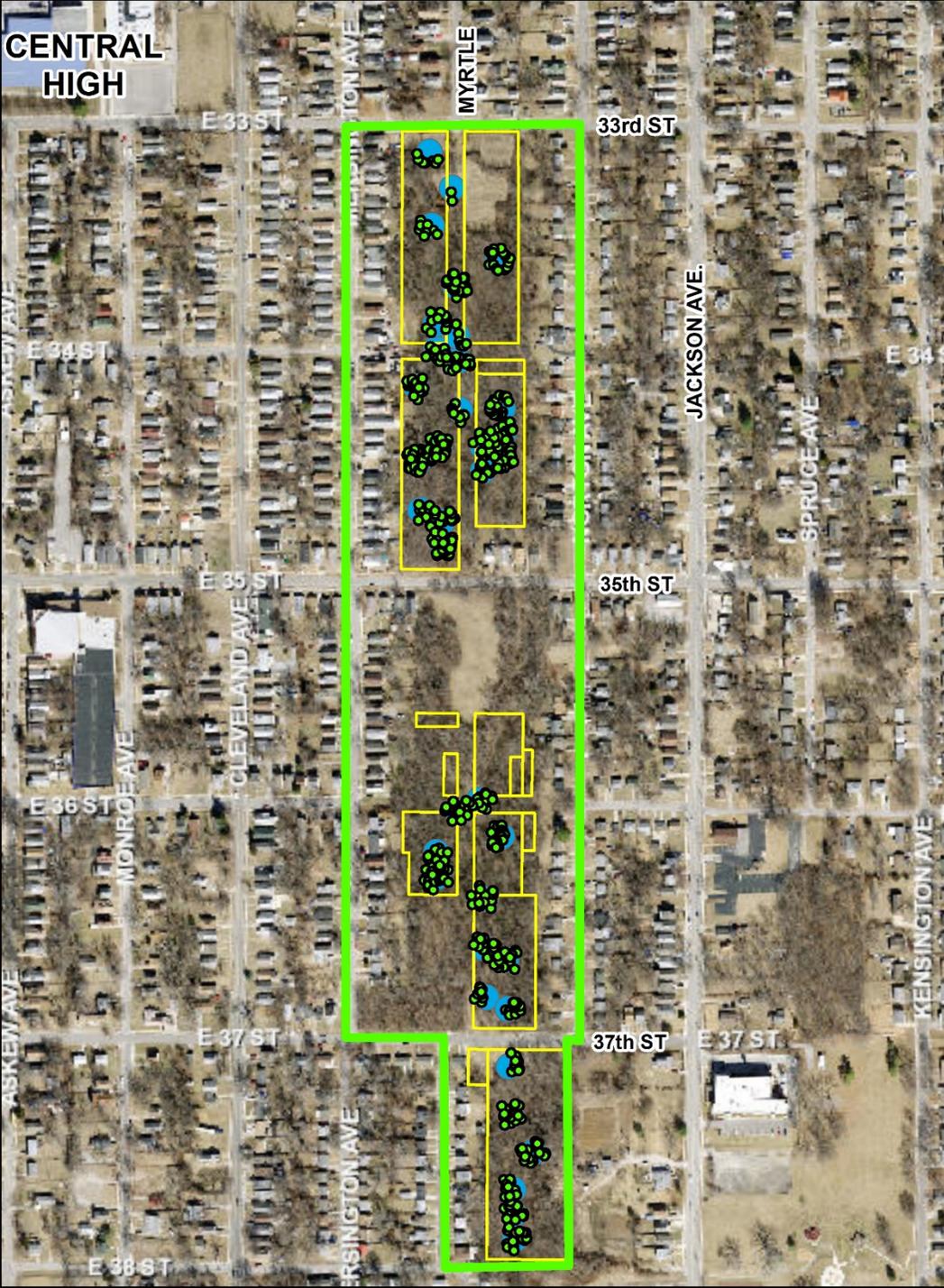
Google My Maps

- Created a Google My Map to show 37 sample plot polygons
- Switch between i-Tree screen and Google My Map to keep us inside the plot polygons or navigate to next polygon

External GPS

- Bad Elf GNSS Surveyor GPS | 1 Meter Accuracy
- Bluetooth to Bad Elf using Bluetooth GPS app
- Change phone settings so Bad Elf will override phone GPS

CENTRAL
HIGH



Inventory Results

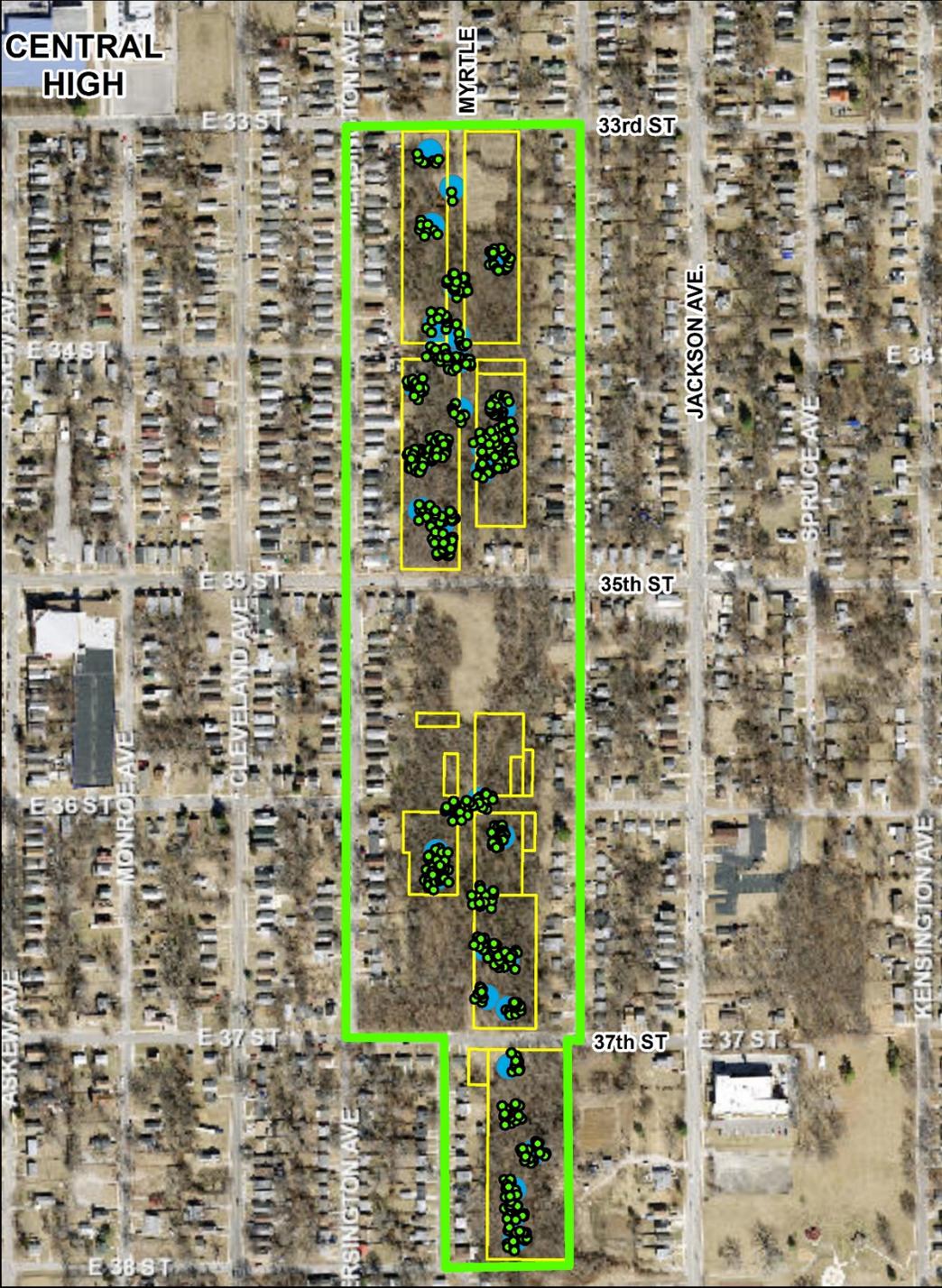
Trees:

- 587 trees inventoried
- i-Tree estimates that there are 2,909 trees in the corridor

Most common species of trees:

- Northern Hackberry | 28%
- American Elm | 27%
- Black Walnut | 14%
- Red Mulberry | 6%
- Honey Locust | 4%
- Chinkapin Oak | 4%
- Tree of Heaven | 3%
- White Oak | 2%

CENTRAL
HIGH

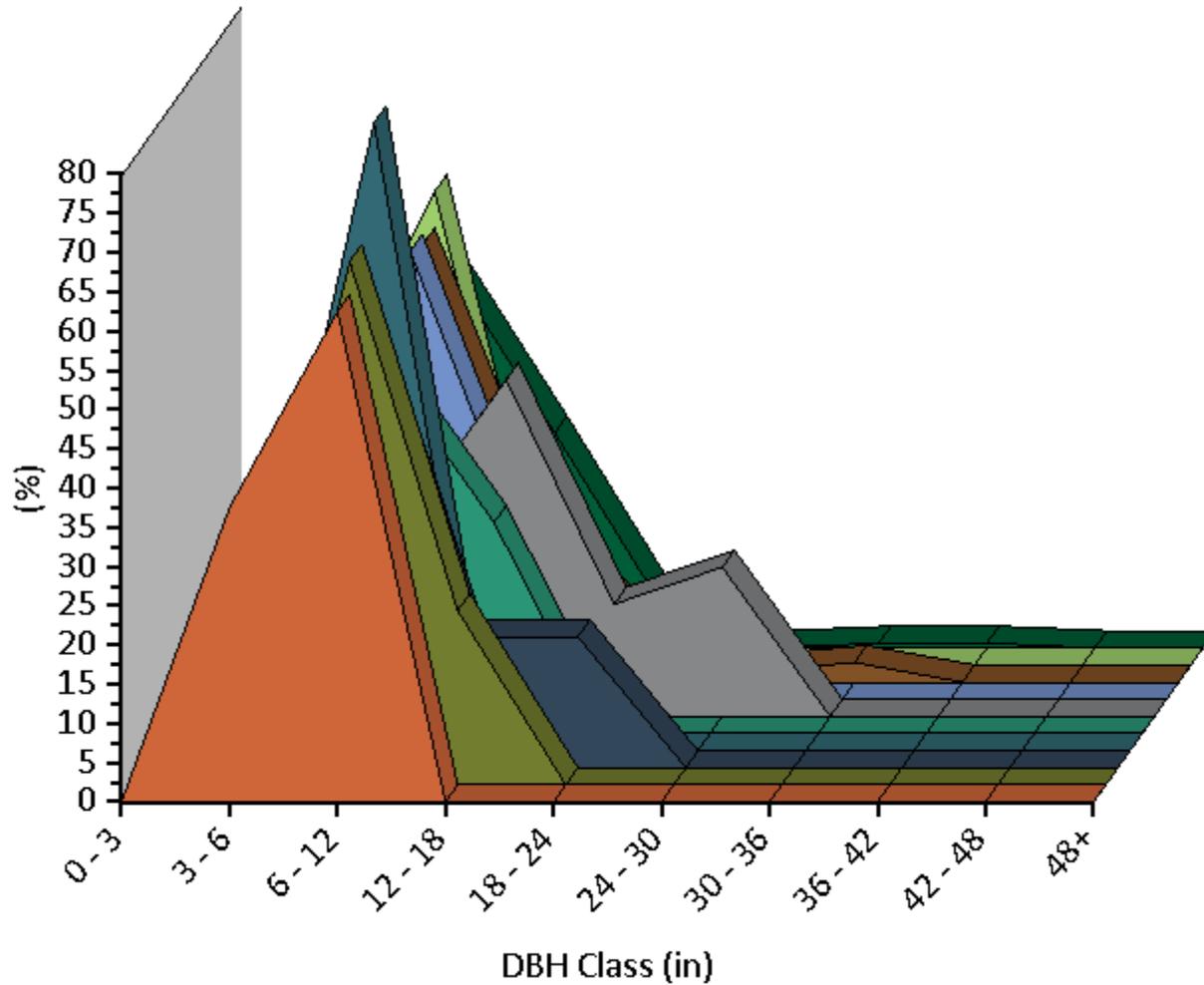


Ecosystem Services

i-Tree estimated the following ecosystem services:

- Pollution Removal: 1,085 pounds/year (\$2,520/year)
- Carbon Storage: 715.7 tons (\$122,000)
- Carbon Sequestration: 28.23 tons (\$4,810/year)
- Oxygen Production: 22.53 tons/year
- Avoided Runoff: 47,190 cubic feet/year (\$3,150/year)

Species Distribution by DBH Class



- Northern hackberry
- American elm
- Black walnut
- Red mulberry
- Honeylocust
- Chinkapin oak
- Tree of heaven
- White oak
- White mulberry
- Boxelder

i-Tree Eco calculated percentage of trees less than 6" diameter: 22%

Note only trees 5" or greater DBH were inventoried



Palestine Corridor

Cleared and Maintained

- Resident has removed invasive honeysuckle and vines on Land Bank property



Palestine Corridor

Cleared and Maintained

- Resident has purchased adjoining lots and cleared area for outdoor use



Palestine Corridor

- Steam
- Invasive Honeysuckle
- Invasive Euonymus



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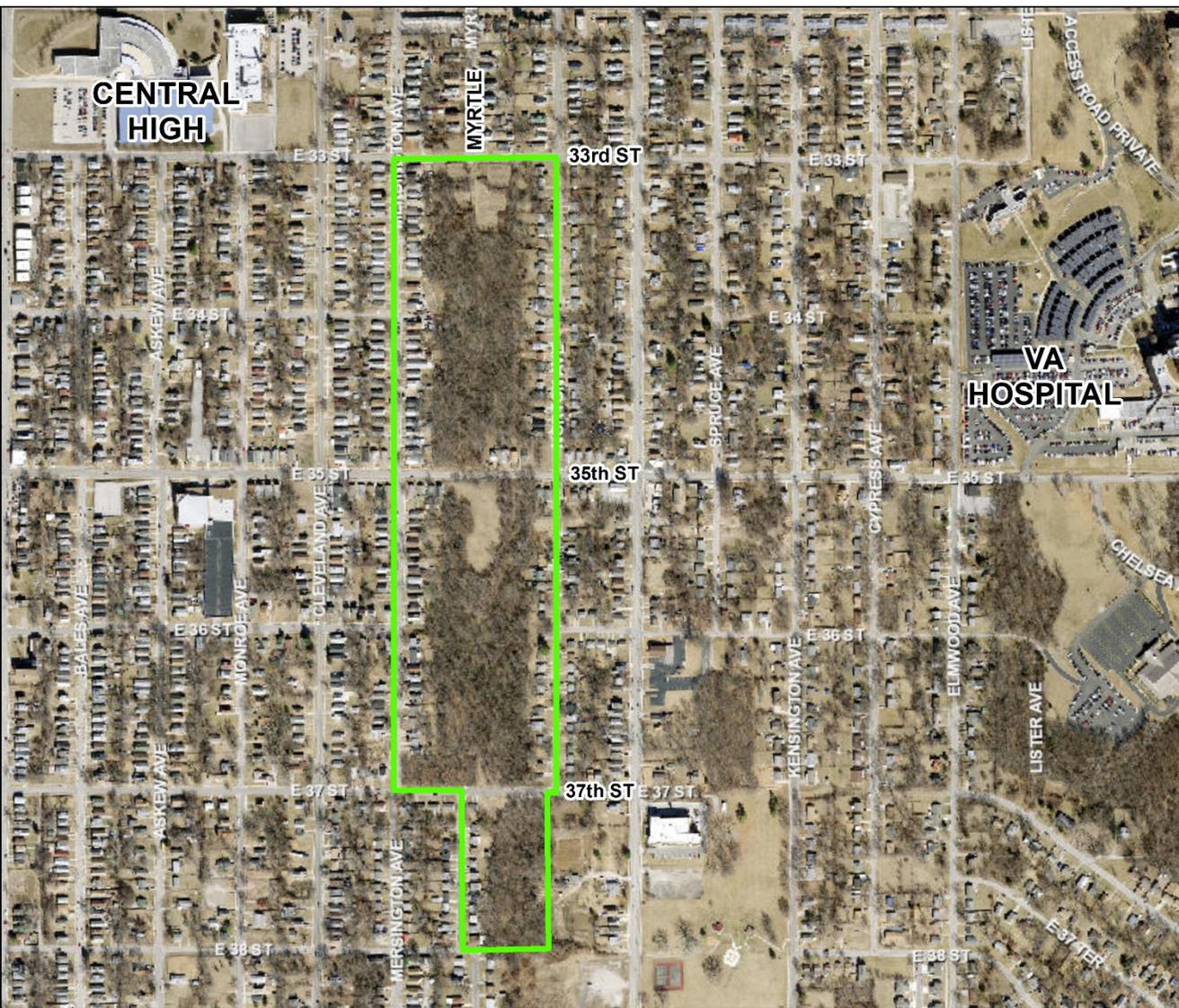
Lots of Trash

- Most trash is along edges where it is easy to dump from a vehicle
- Trash throughout where flooding has carried it away from edges



Palestine Corridor

Dumping from Property



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2020 TREE INVENTORY

INVENTORY DATA

SNAPSHOT IN TIME LOOK AT THE ECOSYSTEM SERVICES

OPPORTUNITIES

TAKE ADVANTAGE OF THIS UNIQUE RESOURCE