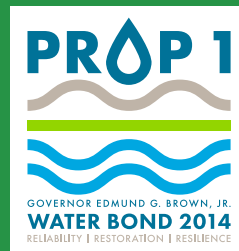




Lower San Diego River EXOTIC WEED MAPPING

2020

with support from:



Invasive plant species
pictured above:

1. *Arundo donax*
2. *Ricinus communis*
3. *Phoenix canariensis*
4. *Tamarix ramosissima*
5. *Eucalyptus* spp.

LOWER SAN DIEGO RIVER EXOTIC WEED MAPPING

Project funded by:

Proposition 1: The Water Quality, Supply and Infrastructure Improvement Act of 2014 through the San Diego River Conservancy

MAPPING PROJECT OVERVIEW

In 2017-2020, The San Diego Park Foundation embarked upon an effort to update the San Diego River Exotic Weed Eradication Master Plan. As part of this effort, The San Diego River Park Foundation staff coordinated volunteers to complete surveys of the lower San Diego River, collected via field surveys by trained volunteers. In some areas, survey locations were scouted with aerial surveys prior to surveys on foot. This mapping accompanies The San Diego River Exotic Weed Master Plan Update.

PROJECT SURVEY AREA

The survey area for this project extended from the Friars Road bridge in Grantville downstream to the River's Mouth at the Pacific Ocean. The width of the project area varies depending on adjacent land use, but typically extended to the edge of the developed land on each parcel. The survey focused on the main stem of the San Diego River, but also includes portions of the tributaries of Murray Creek, Murphy Creek, Fairmount Creek, Ruffin Creek, and Famosa Slough.

METHODOLOGY AND DATA COLLECTION

Staff and volunteers used a customized online mapping platform called imMappler ("Mappler") to track and record data about invasive plant species, including plant type, canopy cover, main stem diameter, GPS location and photo-documentation. This data was collected using a customized user interface on the MapplerK2 smartphone app. Survey participants were trained on identifying specific invasive plant species, as well as how to calculate the canopy coverage and diameter of each large tree species. Data collection included these parameters, as well as GPS location and photo-documentation.

In addition, in the third year, staff and interns also used paper maps to visualize the canopy coverage of each individual plant to create the polygons included in the following maps. This was combined with the smartphone GPS data to generate accurate size and location for the final maps included in this report.

Areas under active restoration during the grant period were not surveyed.

In addition to these hard-copy maps, The San Diego River Park Foundation also maintains an online database of invasive plant data mapping, which is accessible here:

www.immappler.com/sdriverblitz.

ACKNOWLEDGMENTS :

Our thanks to the State of California's Proposition 1: The Water Quality, Supply and Infrastructure Improvement Act of 2014, and the San Diego River Conservancy for the funding to complete this mapping effort.

We would like to thank the original authors of the first San Diego River Exotic Weed Master Plan, as well as the working group members who provided valuable expertise:

Jason Allen, City of San Diego
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Bill Graham, The San Diego River Park Foundation volunteer
Dustin Harrison, San Diego River Conservancy
Morgan Henderson, The San Diego River Park Foundation
Mike Kelly, Consultant, Kelly and Associates
Alicia Kinoshita, San Diego State University
Sean Paver, City of San Diego
Jim Peugh, The San Diego River Park Foundation and Friends of Famosa Slough
Shannon Quigley-Raymond, The San Diego River Park Foundation
Lisa Schivinato, The San Diego River Park Foundation
Steven Smith, City of San Diego

We would like to thank the many volunteers who walked dozens of miles on foot, often through difficult terrain, to collect this data to inform future invasive removal.

Lastly, we acknowledge these staff and interns who led the data collection and analysis:









Morgan Henderson	David Aponte
Andrew Meyer	Marcela Bradley
Shannon Quigley-Raymond	Evan Casey
Natasha Rodriguez	Robert Erwin
Lisa Schiavinato	Kevin Kirk

LOWER SAN DIEGO RIVER EXOTIC WEEK MAPPING

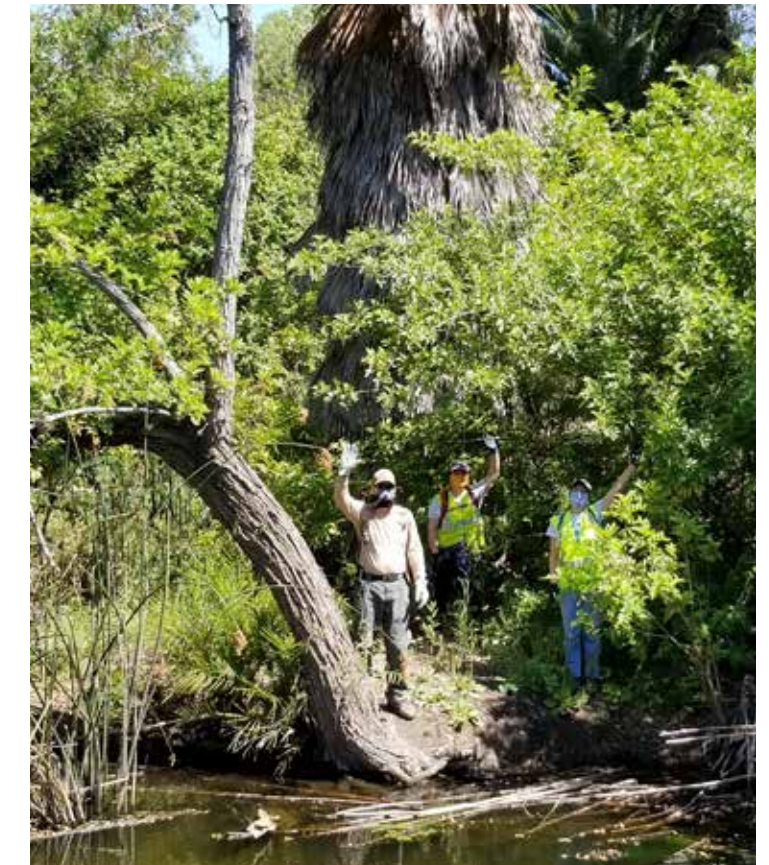
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TARGET INVASIVE PLANT SPECIES

Common Name	Botanical name	Cal-IPC Rating	Cal-IPC	Photo
Giant reed	<i>Arundo donax</i>	High	www.cal-ipc.org/plants/profile/arundo-donax-profile/	
Brazilian pepper tree	<i>Schinus terebinthifolius</i>	Moderate	www.cal-ipc.org/plants/profile/schinus-terebinthifolius-profile/	
Canary Island date palm	<i>Phoenix canariensis</i>	Limited	https://www.cal-ipc.org/plants/profile/phoenix-canariensis-profile/	
Eucalyptus	<i>Eucalyptus spp.</i>	Watch - Limited	https://www.cal-ipc.org/plants/profile/eucalyptus-globulus-profile/	
Mexican fan palm	<i>Washingtonia robusta</i>	Moderate	https://www.cal-ipc.org/plants/profile/washingtonia-robusta-profile/	
Castor bean	<i>Ricinus communis</i>	Limited	https://www.cal-ipc.org/plants/profile/ricinus-communis-profile/	
Eupatory	<i>Ageratina adenophora</i>	Moderate	https://www.cal-ipc.org/plants/profile/ageratina-adenophora-profile/	
Water primrose	<i>Ludwigia peploides, hexapelata</i>	High	https://www.cal-ipc.org/plants/profile/ludwigia-peploides-profile/	
Pampas grass	<i>Cortaderia selloana</i>	High	https://www.cal-ipc.org/plants/profile/cortaderia-selloana-profile/	
Salt cedar	<i>Tamarisk ramosissima</i>	High	https://www.cal-ipc.org/plants/profile/tamarix-ramosissima-profile/	
Algerian sea lavender	<i>Limonium ramosissimum</i>	Moderate	https://www.cal-ipc.org/plants/profile/limonium-ramosissimum-profile/	
Yellowflag iris	<i>Iris pseudacorus</i>	Limited	https://www.cal-ipc.org/plants/profile/iris-pseudacorus-profile/	

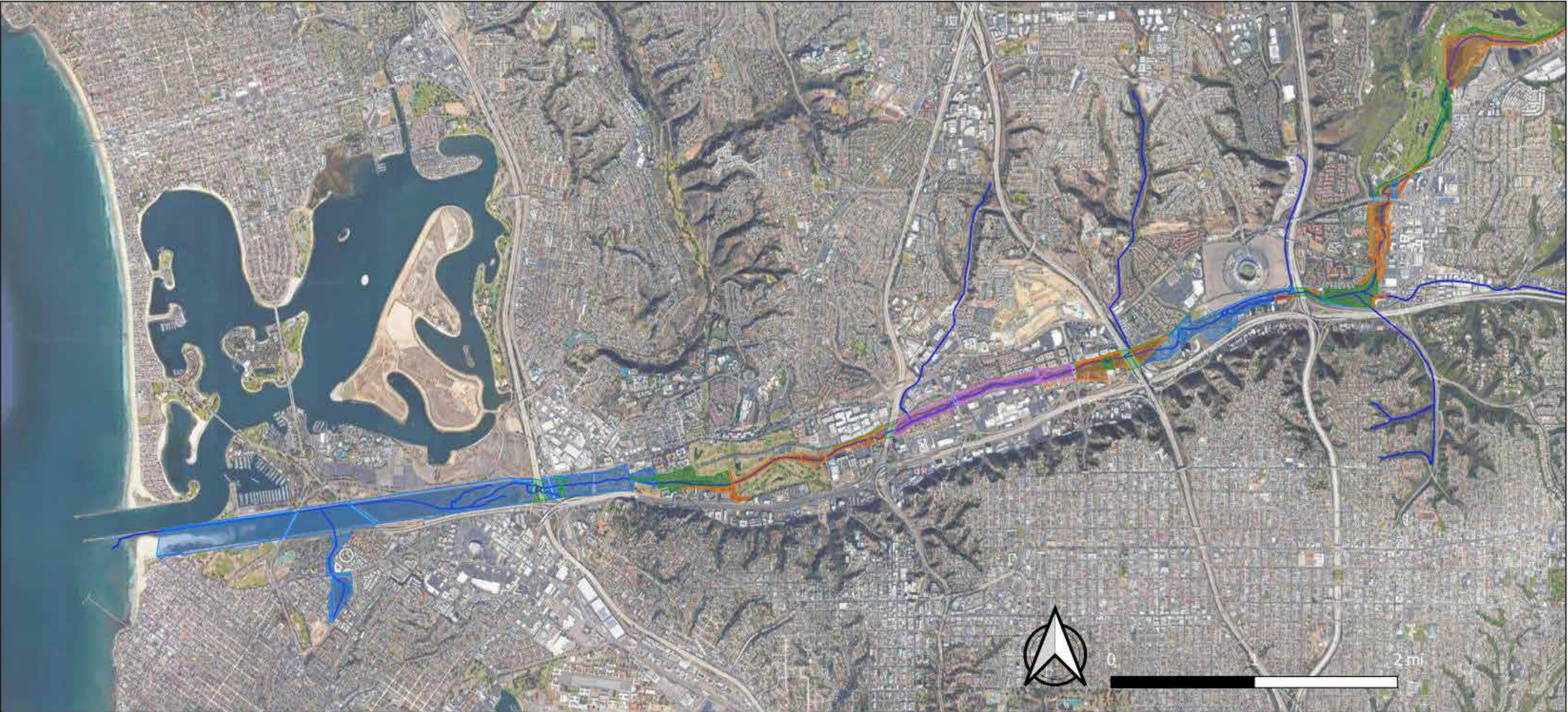
Other woody species (OWS) category includes less common species like: acacia (*Acacia spp.*), bottlebrush (*Callistemon citrinus*), carrotwood (*Cupaniopsis anacardioides*), Chinese elm (*Ulmus parvifolia*), European olive (*Olea europaea*), fig (*Ficus carica*), golden rain (*Koeleruteria paniculata*), Peruvian pepper tree (*Schinus molle*), Russian olive (*Elaeagnus angustifolia*), Shamel ash (*Fraxinus uhdei*), tree of Heaven (*Ailanthus altissima*; *Ailanthus glandulosa*; *Toxicodendron altissimum*), and tree tobacco (*Nicotiana glauca*)



Volunteer survey teams were trained and deployed to collect invasive species data using smart phones and paper maps. Pictured (clockwise starting top left): volunteer documents Mexican fan palm on smart phone app; volunteer team waving from riverbank; volunteer documents salt cedar using smart phone app; volunteer records canopy coverage of a eucalyptus on paper map.



Parcel Ownership Along the San Diego River



Authored by San Diego River Park Foundation with funding from




Owner Type
 City of San Diego
 Private
 Other Agency
 City of San Diego - Maintenance Assessment District
 River

Basemap data: Google, Maxar Technologies; SanGIS



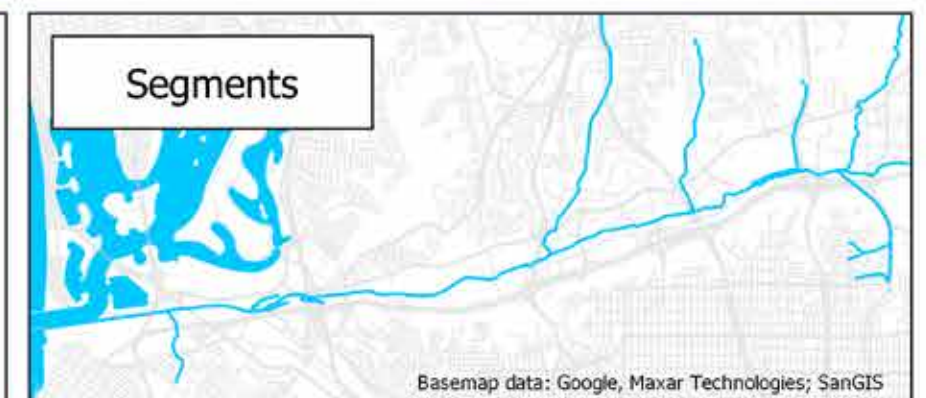
Authored by San Diego River Park Foundation with funding from



River Segments

- Estuary (ES)
- Mission Valley West (MW)
- Mission Valley East (ME)
- Grantville (GR)
- Tributaries (TR)

Data collection by: San Diego River Park Foundation in 2020



Basemap data: Google, Maxar Technologies; SanGIS

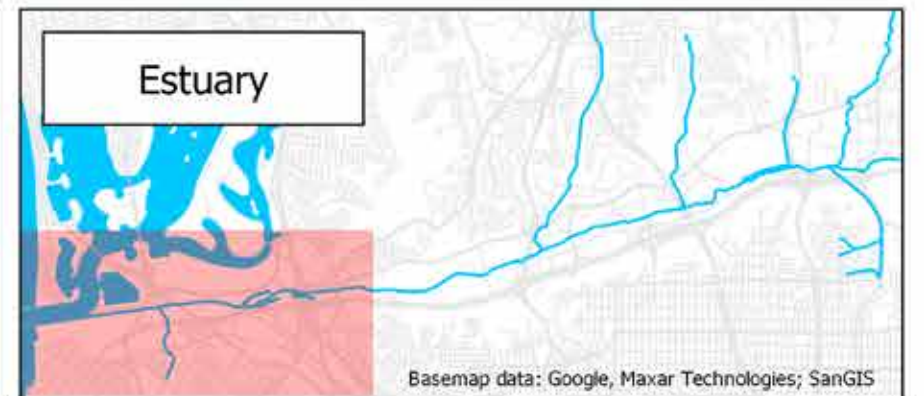


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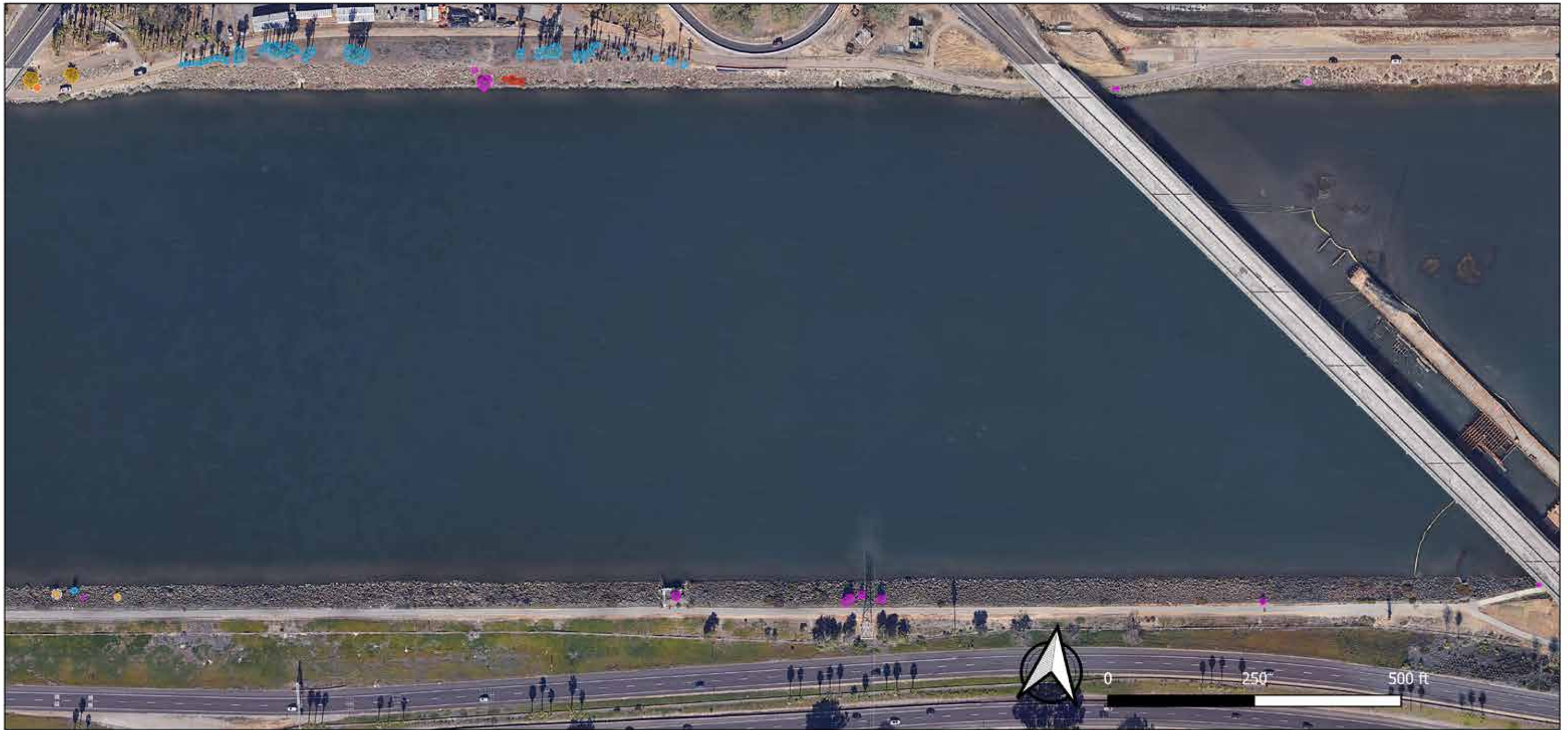


Canopy Species	Point Species	Other
Arundo	Castor bean	Sections
Brazilian pepper tree	Eupatory	Project Area
Canary Island date palm	Ludwigia	
Eucalyptus	Pampas grass	
Mexican fan palm	Sea Lavender	
Tamarisk	Yellow flag iris	
Other Woody Species		

Data collection by: San Diego River Park Foundation in 2020



Basemap data: Google, Maxar Technologies; SanGIS



Authored by San Diego River Park Foundation with funding from



Canopy Species

- Brazilian pepper tree
- Canary Island date palm
- Mexican fan palm
- Other Woody Species

Point Species

- Castor bean
- Pampas grass
- Sea lavender

Data collection by: San Diego River Park Foundation in 2020



Basemap data: Google, Maxar Technologies; SanGIS



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- | | |
|--|---|
| Canopy Species | Point Species |
| Other Woody Species | Castor bean |
| | Sea lavender |

Data collection by: San Diego River Park Foundation in 2020



Basemap data: Google, Maxar Technologies; SanGIS



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Canopy Species

- Brazilian pepper tree
- Canary Island date palm
- Other Woody Species

Section: ES3



Data collection by: San Diego River Park Foundation in 2020

Basemap data: Google, Maxar Technologies; SanGIS



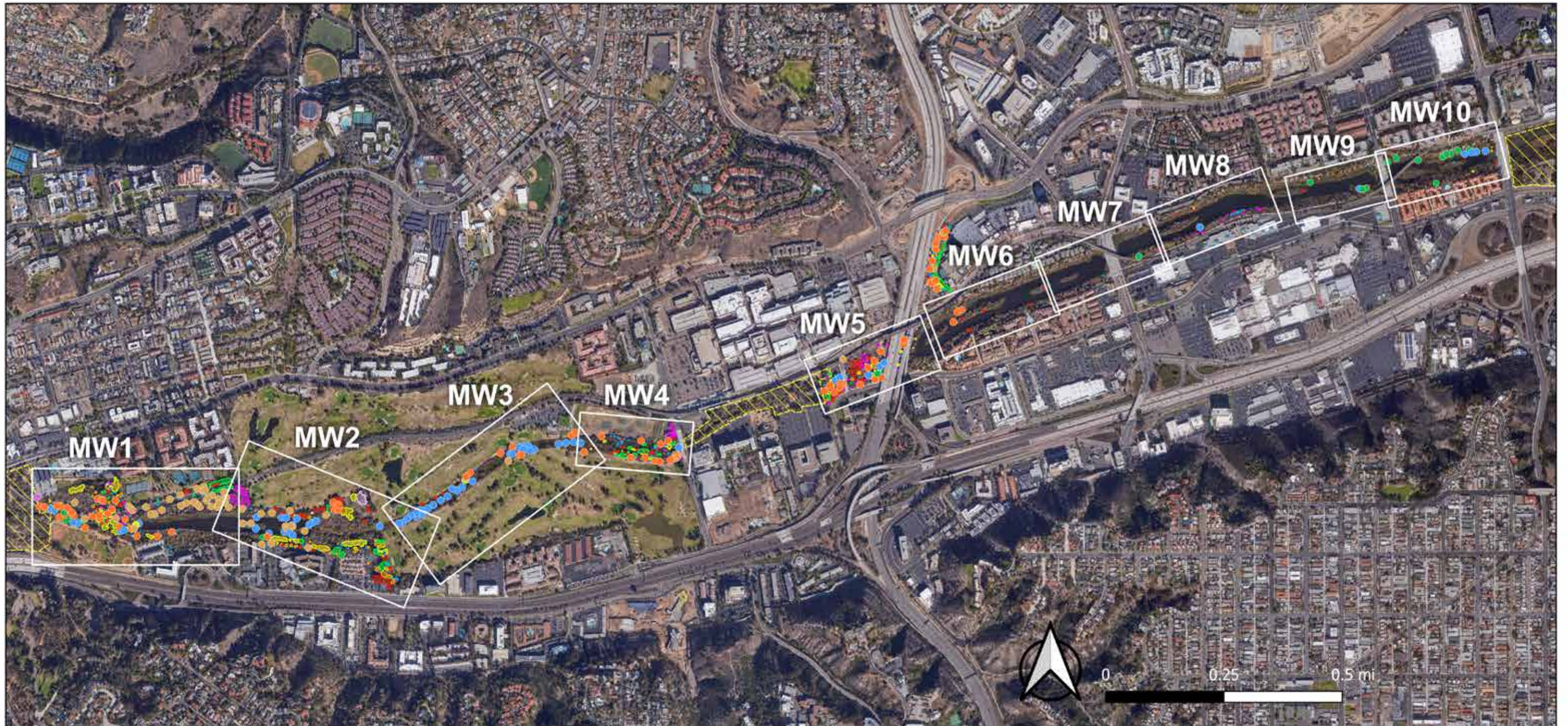
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Canopy Species	Point Species	Other
Arundo	Castor bean	Project Area
Brazilian pepper tree	Pampas grass	
Canary Island date palm	Yellow flag iris	
Eucalyptus		
Mexican fan palm		
Tamarisk		
Other Woody Species		

Data collection by: San Diego River Park Foundation in 2020





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Canopy Species

- Arundo
- Brazilian pepper tree
- Canary Island date palm
- Eucalyptus
- Mexican fan palm
- Tamarisk
- Other Woody Species

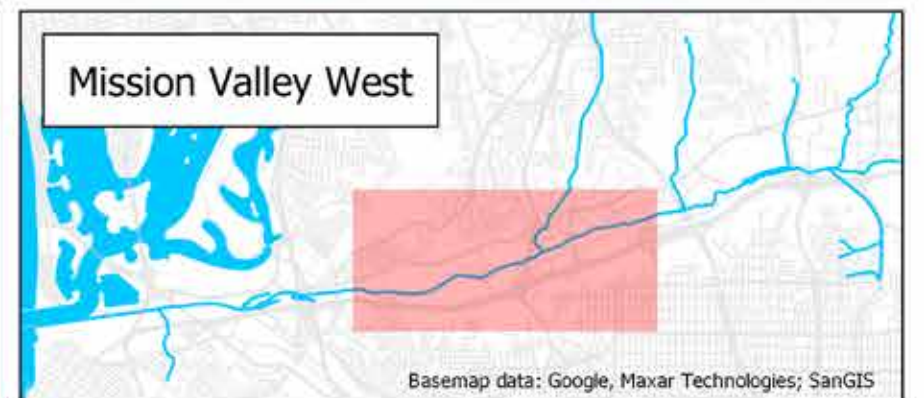
Point Species

- Castor bean
- Eupatory
- Ludwigia
- Pampas grass
- Sea Lavender
- Water lettuce
- Yellow flag iris

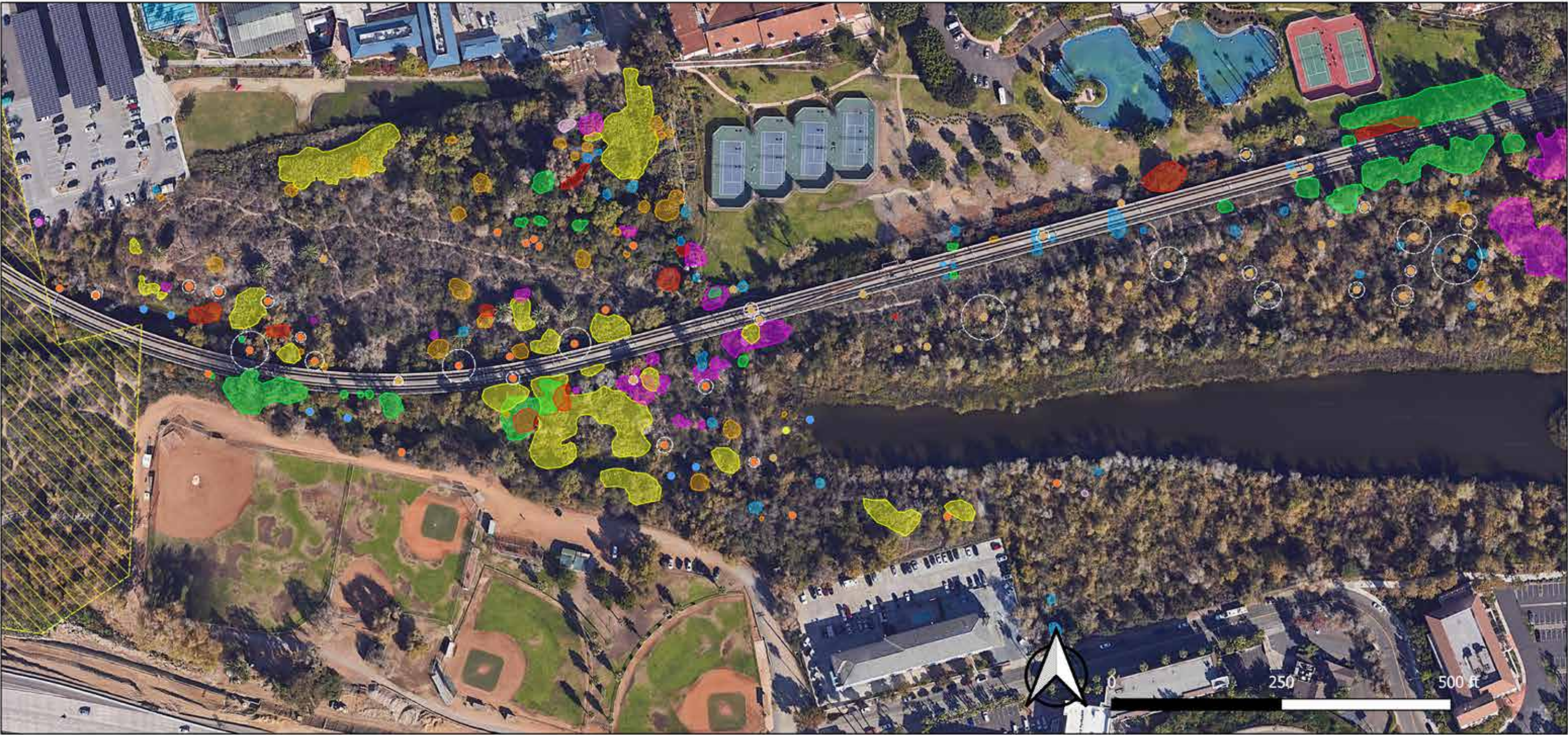
Other

- Sections
- Project Area

Data collection by: San Diego River Park Foundation in 2020



Basemap data: Google, Maxar Technologies; SanGIS



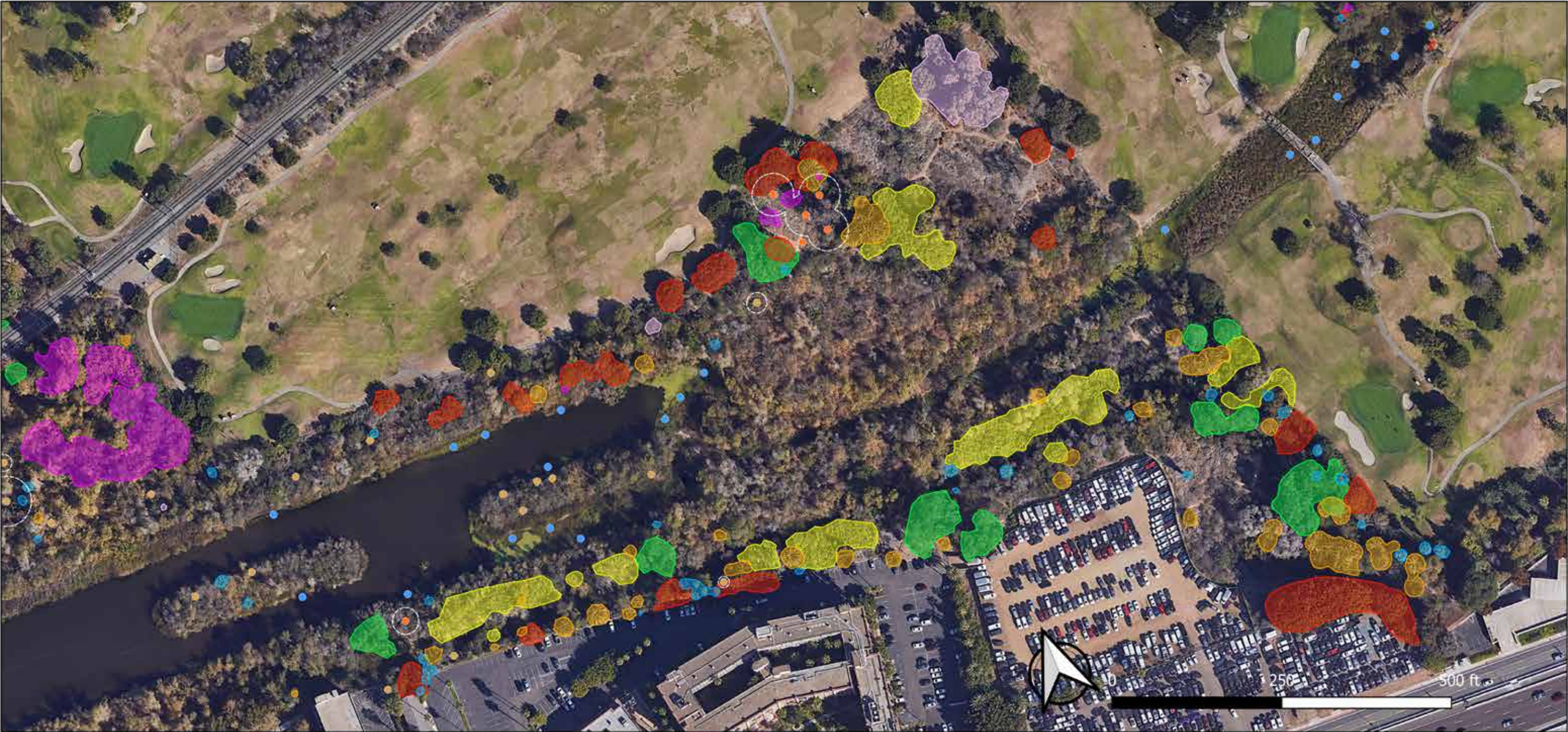
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Canopy Species	Point Species	Other
Arundo	Castor bean	Project Area
Brazilian pepper tree	Eupatory	
Canary Island date palm	Ludwigia	
Eucalyptus	Pampas grass	
Mexican fan palm	Sea lavender	
Tamarisk	Yellow flag iris	
Other Woody Species		

Data collection by: San Diego River Park Foundation in 2020





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Canopy Species

- Arundo
- Brazilian pepper tree
- Canary Island date palm
- Eucalyptus
- Mexican fan palm
- Tamarisk
- Other Woody Species

Point Species

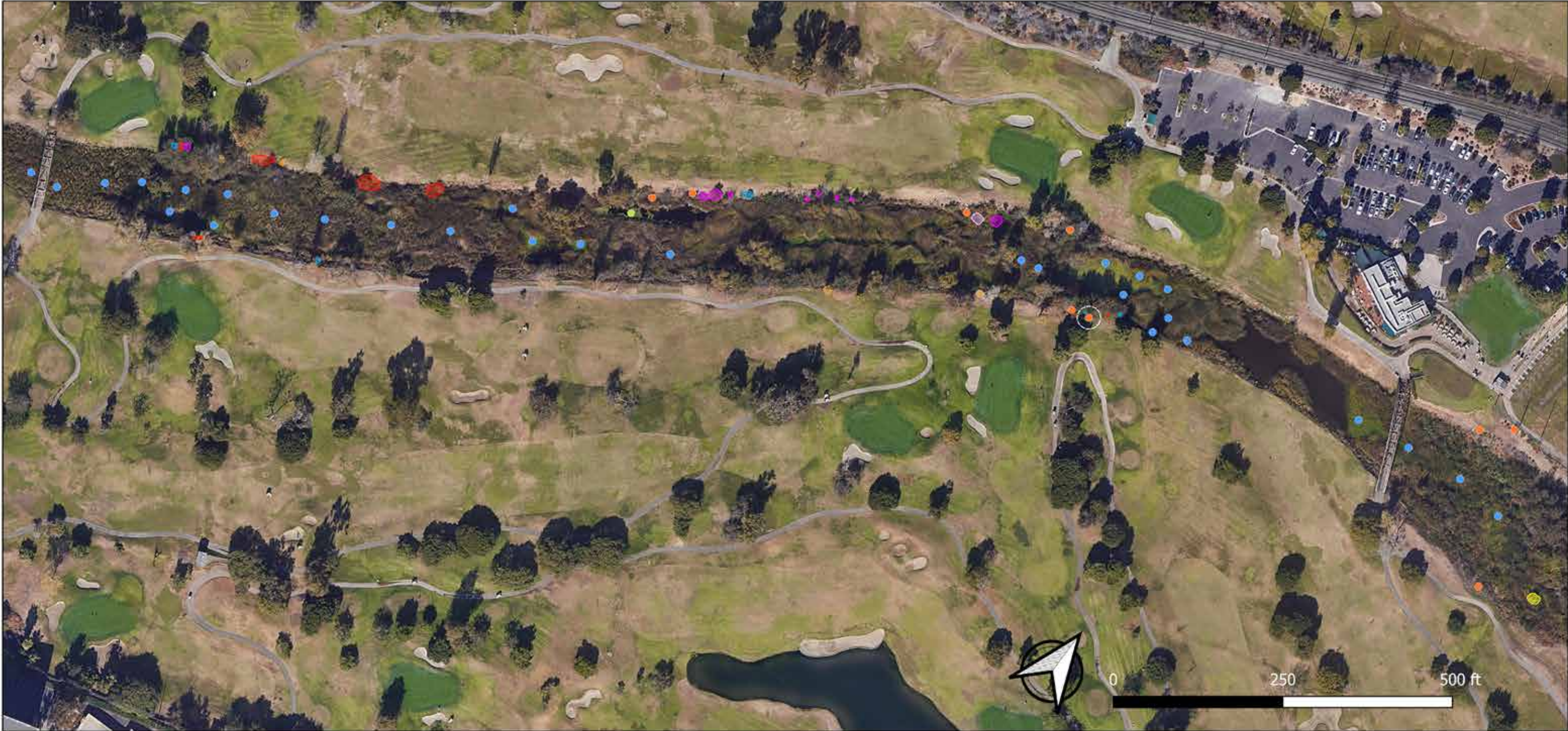
- Castor bean
- Ludwigia
- Pampas grass

Data collection by: San Diego River Park Foundation in 2020

Section: MW2



Basemap data: Google, Maxar Technologies; SanGIS

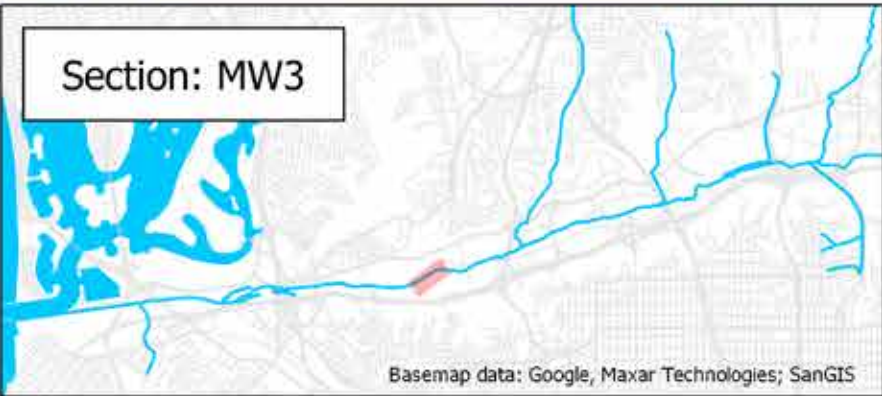


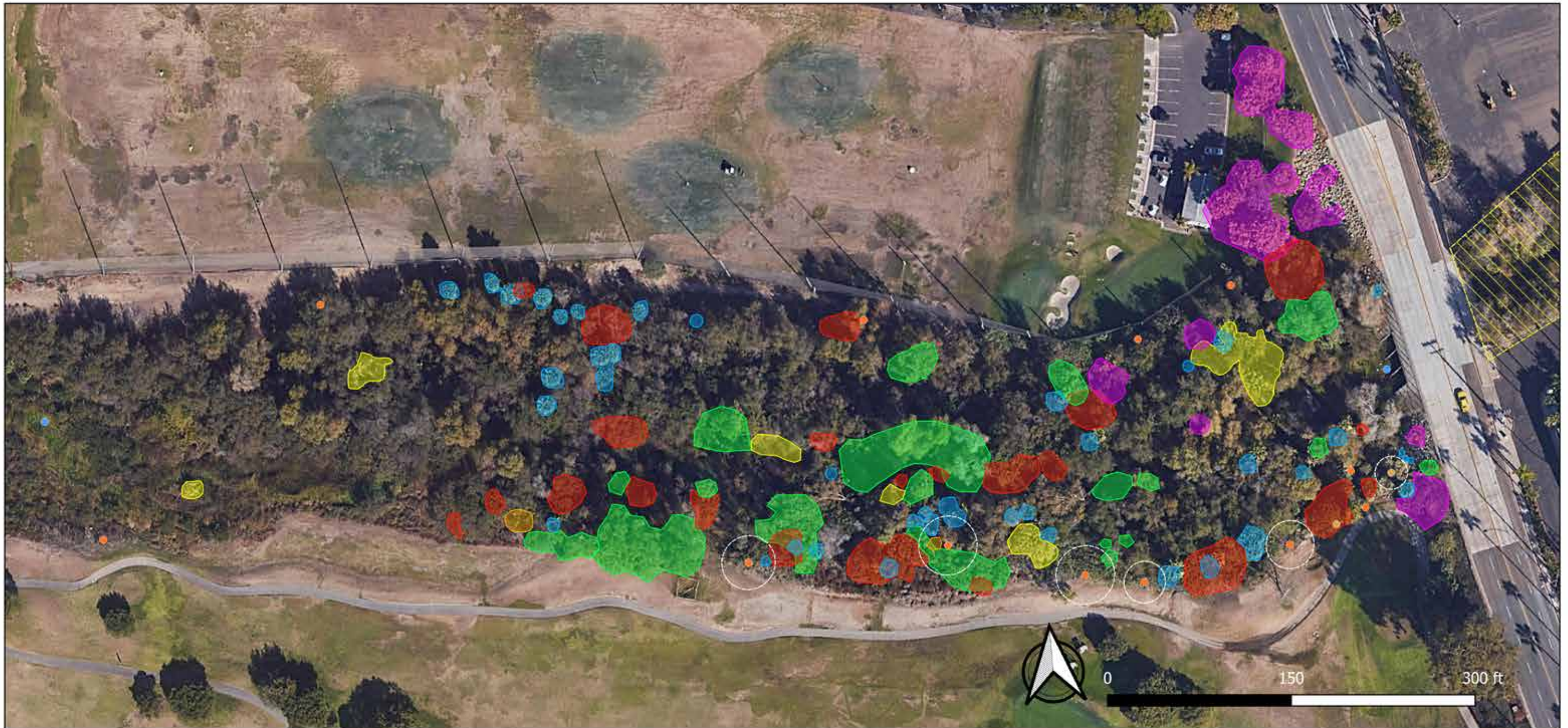
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Canopy Species	Point Species
■ Arundo	● Castor bean
■ Brazilian pepper tree	● Ludwigia
■ Canary Island date palm	● Pampas grass
■ Eucalyptus	● Water lettuce
■ Mexican fan palm	
■ Tamarisk	
■ Other Woody Species	

Data collection by: San Diego River Park Foundation in 2020



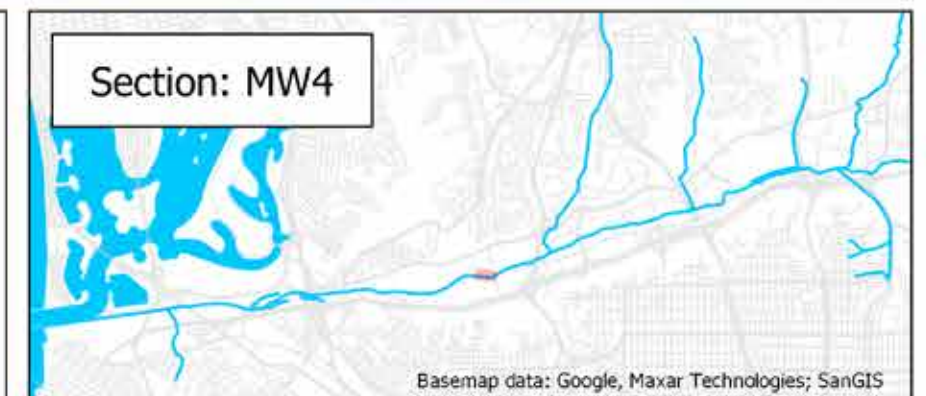


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- | Canopy Species | Point Species | Other |
|---|---|--|
| ■ Arundo | ● Castor bean | Project Area |
| ■ Brazilian pepper tree | ● Ludwigia | |
| ■ Canary Island date palm | ● Pampas grass | |
| ■ Eucalyptus | | |
| ■ Mexican fan palm | | |
| ■ Other Woody Species | | |

Data collection by: San Diego River Park Foundation in 2020



Basemap data: Google, Maxar Technologies; SanGIS



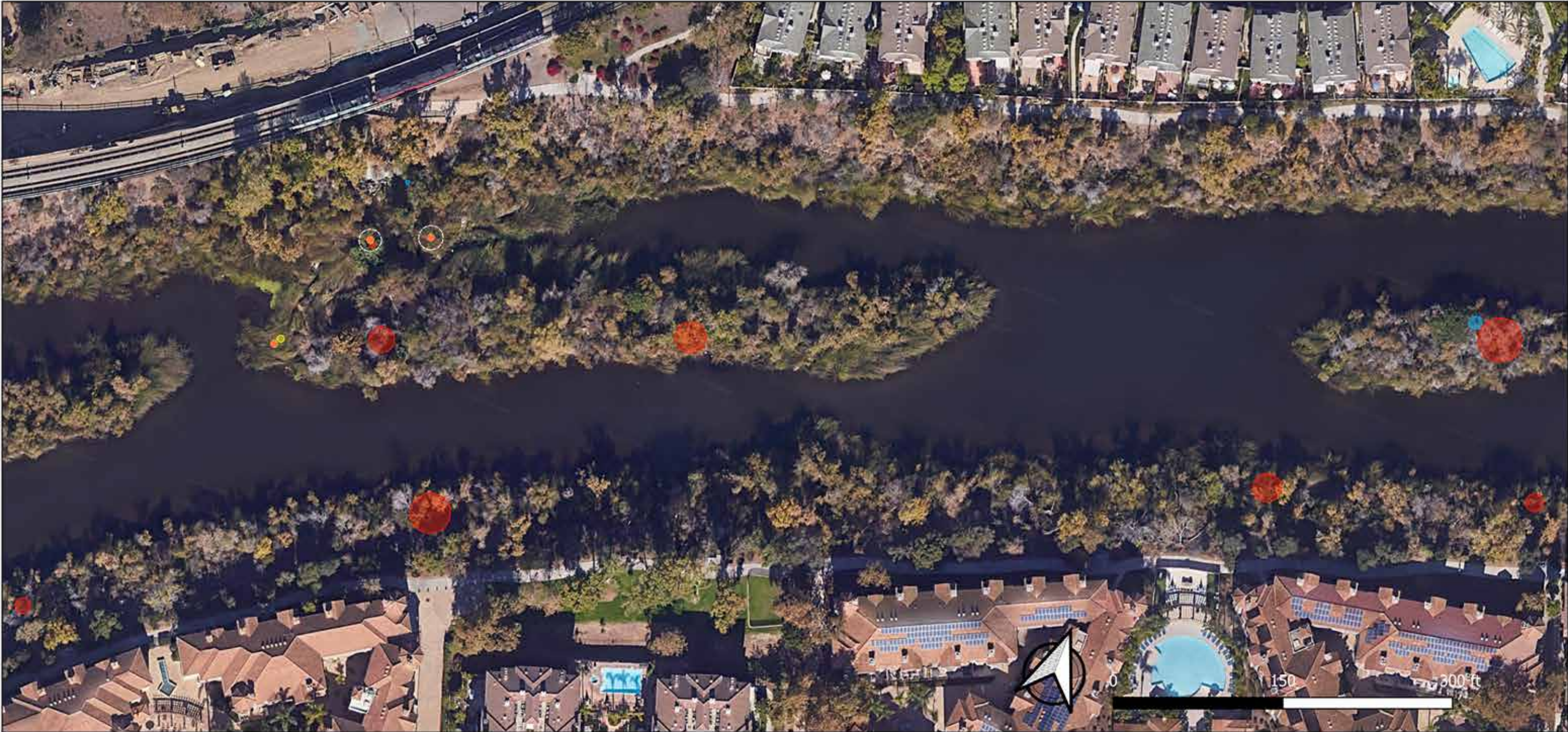
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Canopy Species	Point Species	Other
Arundo	Castor bean	Project Area
Brazilian pepper tree	Eupatory	
Canary Island date palm	Ludwigia	
Eucalyptus	Pampas grass	
Mexican fan palm		
Tamarisk		
Other Woody Species		

Data collection by: San Diego River Park Foundation in 2020





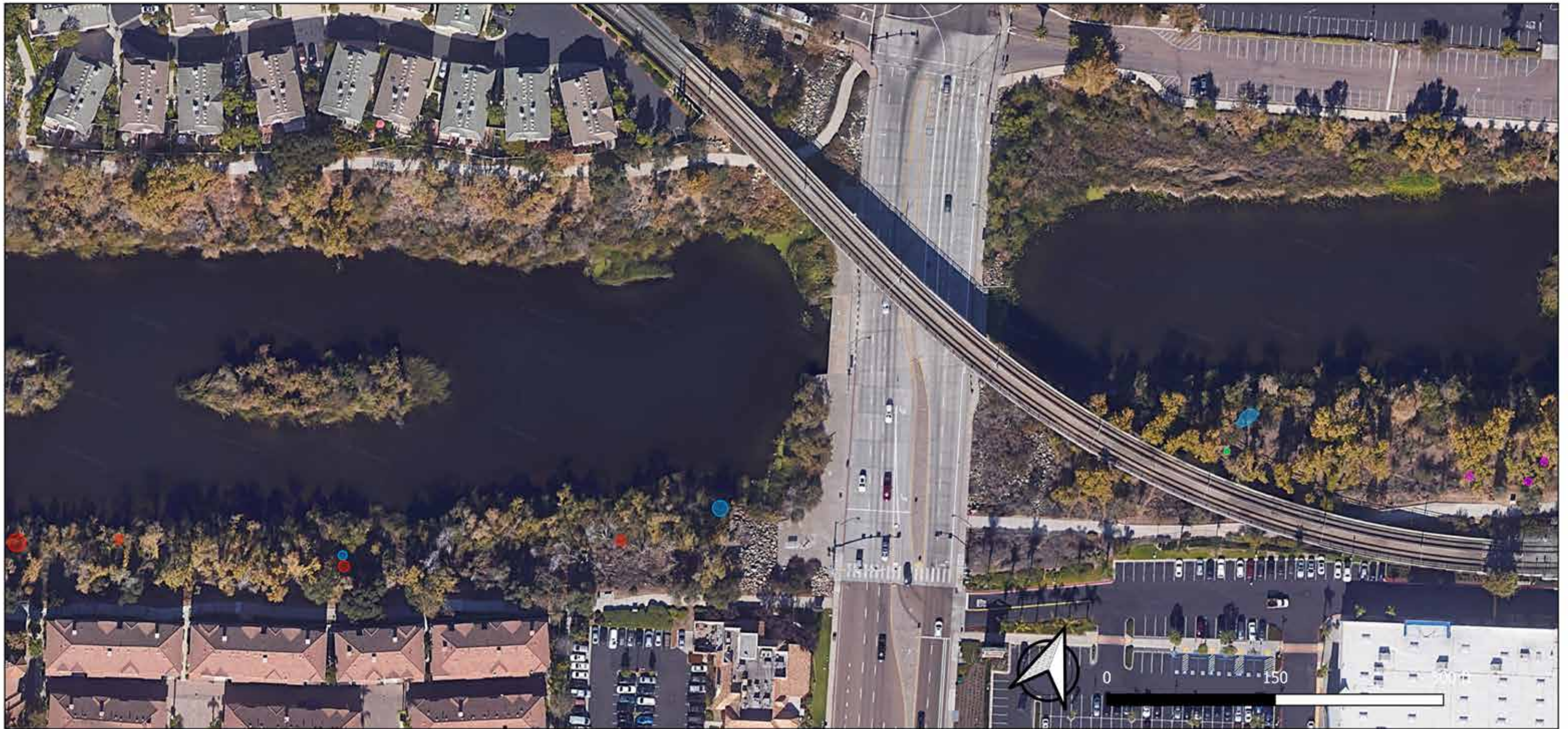
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- | | |
|-------------------------|----------------------|
| Canopy Species | Point Species |
| Arundo | Castor bean |
| Brazilian pepper tree | Pampas grass |
| Canary Island date palm | |
| Eucalyptus | |
| Mexican fan palm | |

Data collection by: San Diego River Park Foundation in 2020





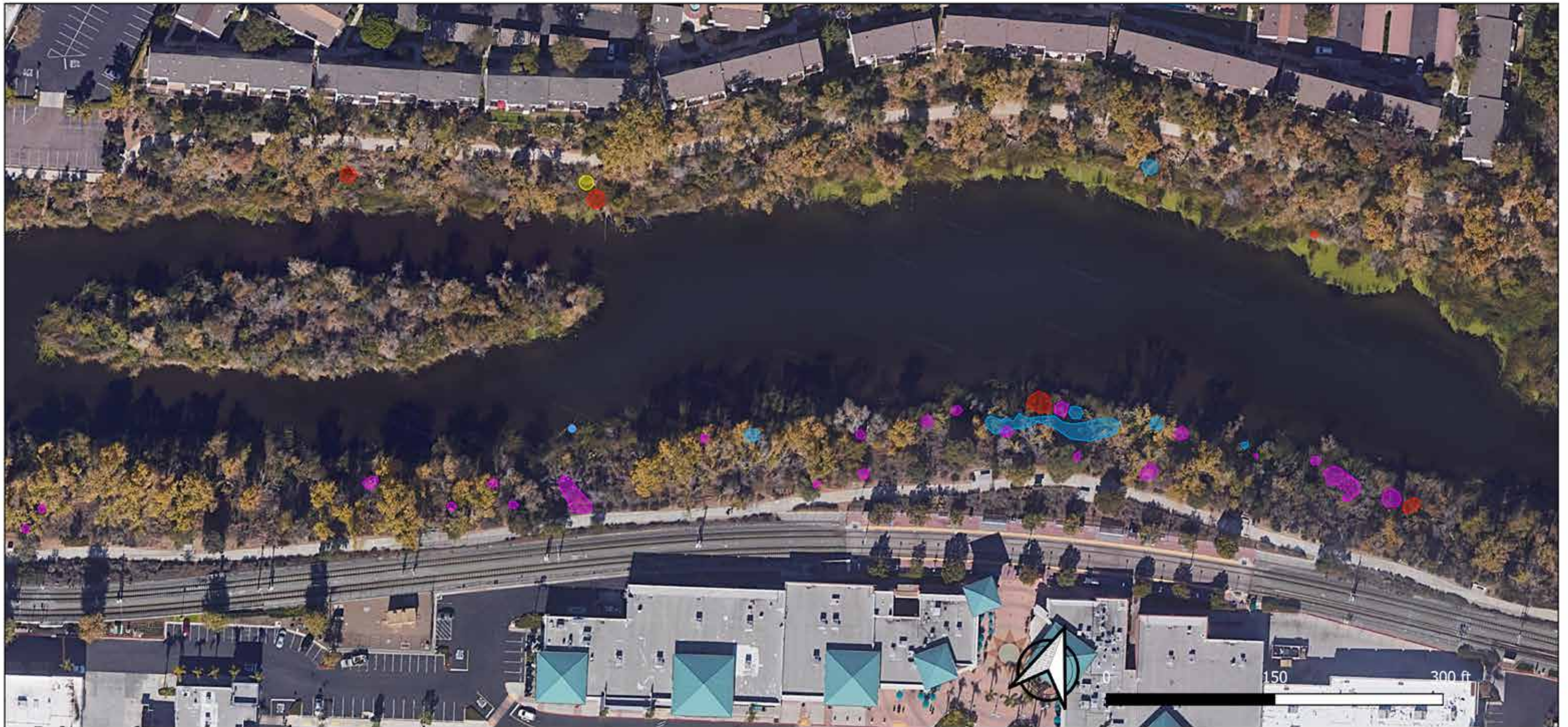
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- | Canopy Species | Point Species |
|--|---|
| ■ Brazilian pepper tree | ● Eupatory |
| ■ Mexican fan palm | |
| ■ Other Woody Species | |

Data collection by: San Diego River Park Foundation in 2020





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Canopy Species

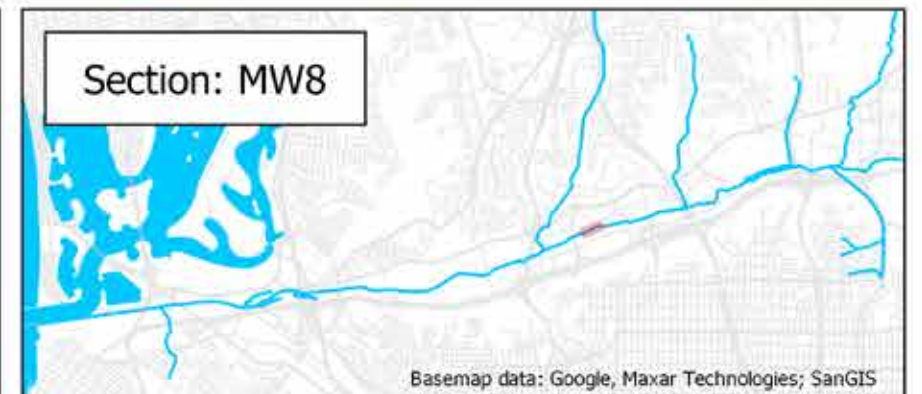
- Arundo
- Brazilian pepper tree
- Mexican fan palm
- Other Woody Species

Point Species

- Eupatory
- Ludwigia

Data collection by: San Diego River Park Foundation in 2020

Section: MW8



Basemap data: Google, Maxar Technologies; SanGIS

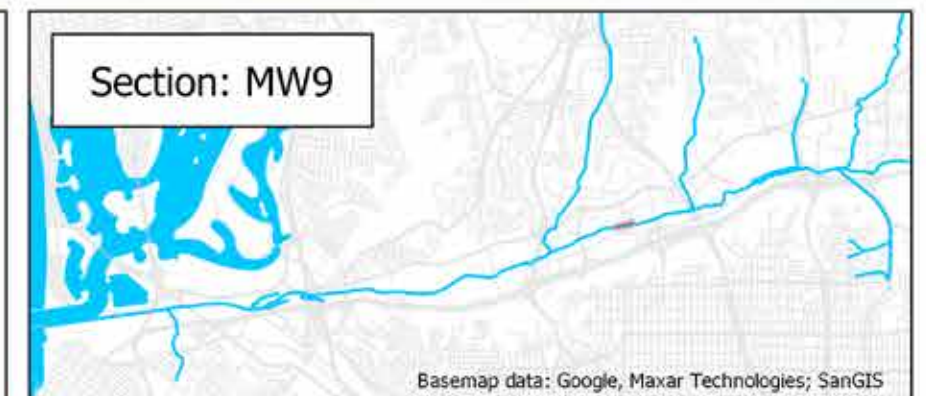


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- | Canopy Species | Point Species |
|---|---|
| ■ Brazilian pepper tree | ● Eupatory |
| ■ Canary Island date palm | ● Ludwigia |
| ■ Mexican fan palm | |
| ■ Other Woody Species | |

Data collection by: San Diego River Park Foundation in 2020





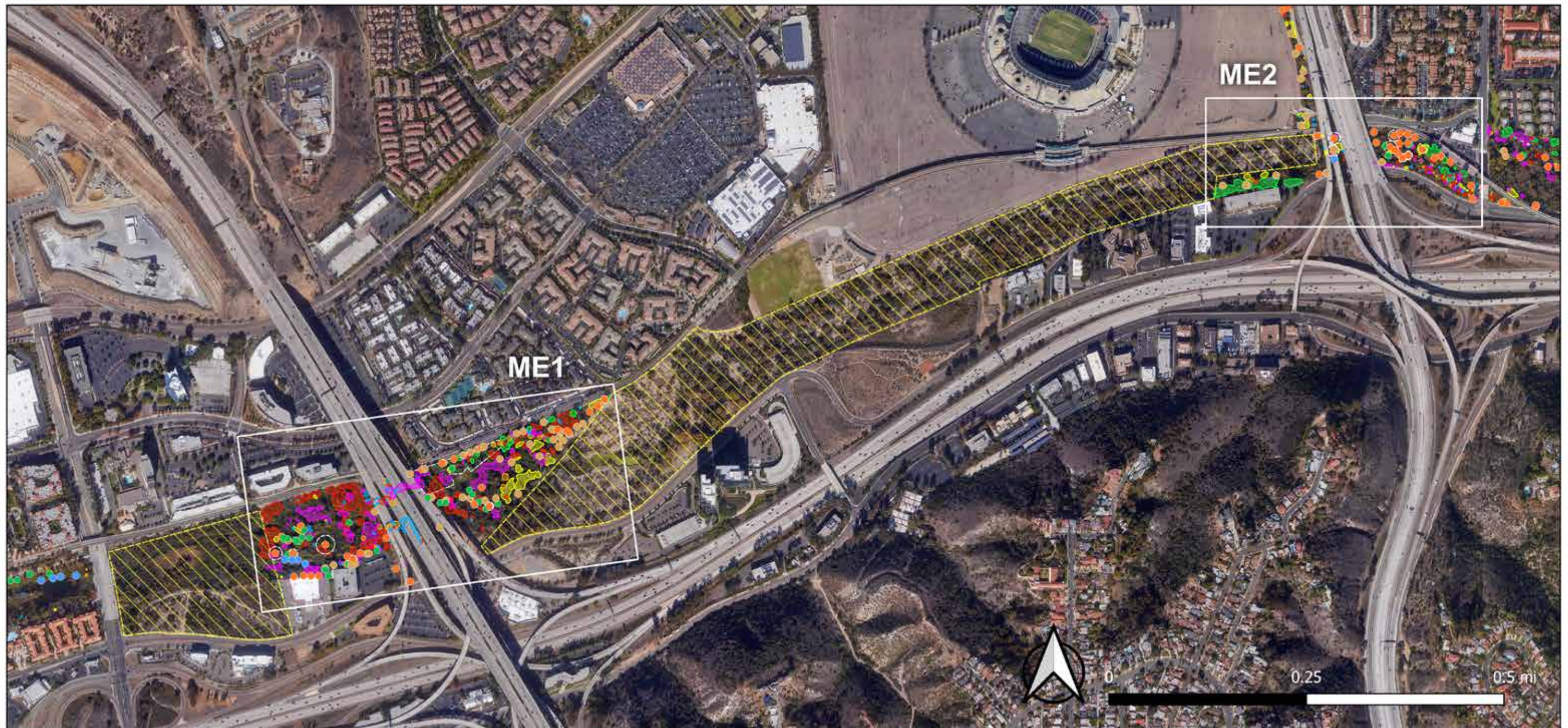
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- | | | |
|--|---|--|
| Canopy Species | Point Species | Other |
| <ul style="list-style-type: none"> Arundo Brazilian pepper tree Canary Island date palm Mexican fan palm Other Woody Species | <ul style="list-style-type: none"> Eupatory Ludwigia | <ul style="list-style-type: none"> Project Area |

Data collection by: San Diego River Park Foundation in 2020





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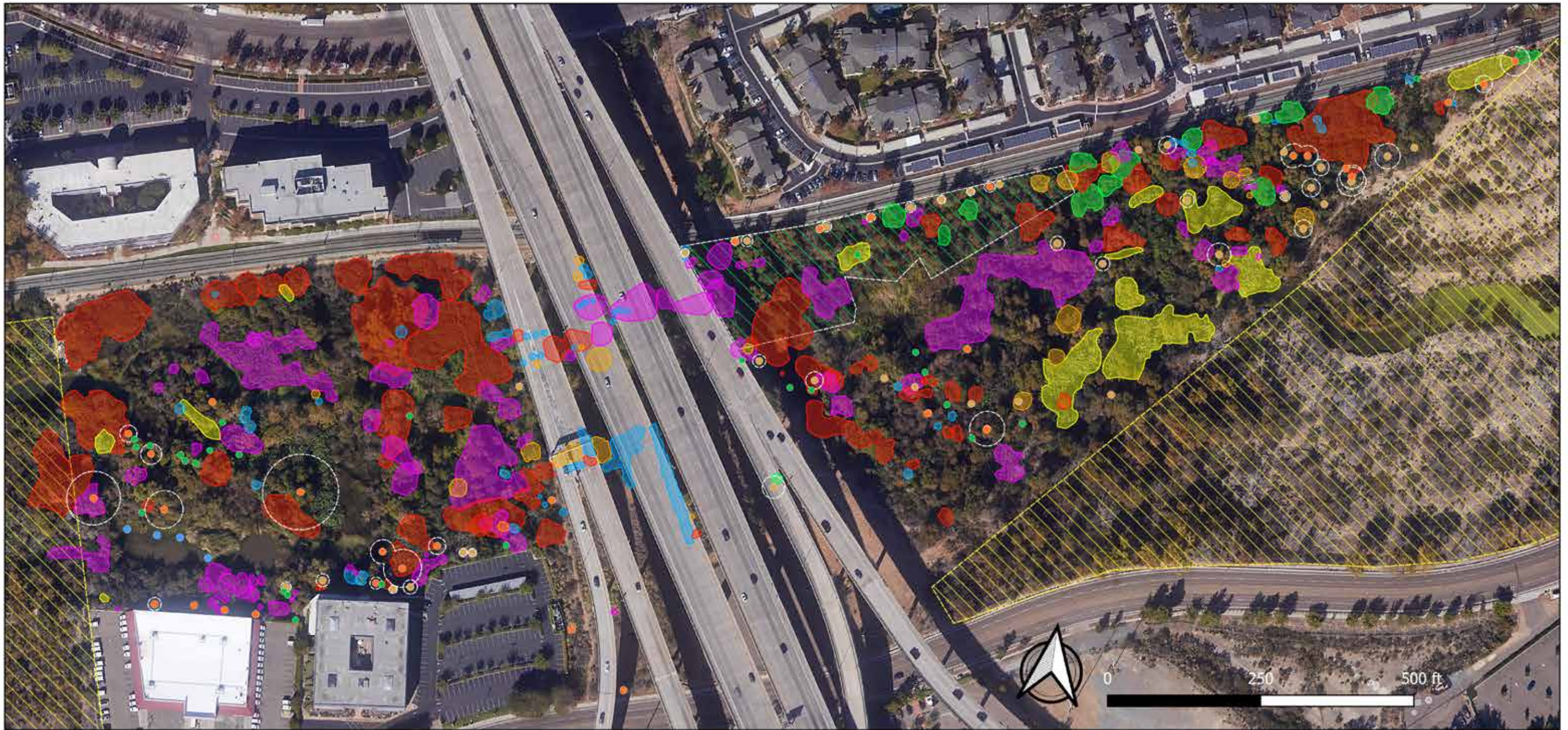


Canopy Species	Point Species	Other
Arundo	Castor bean	Sections
Brazilian pepper tree	Eupatory	Project Area
Canary Island date palm	Ludwigia	
Eucalyptus	Pampas grass	
Mexican fan palm	Impacted area (Eupatory)	
Tamarisk		
Other Woody Species		

Data collection by: San Diego River Park Foundation in 2020



Basemap data: Google, Maxar Technologies; SanGIS



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Canopy Species

- Arundo
- Brazilian pepper tree
- Canary Island date palm
- Eucalyptus
- Mexican fan palm
- Other Woody Species

Point Species

- Castor bean
- Eupatory
- Ludwigia
- Pampas grass
- Impacted area (Eupatory)

Other

- Project Area

Data collection by: San Diego River Park Foundation in 2020

Section: ME1



Basemap data: Google, Maxar Technologies; SanGIS



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Canopy Species

- Arundo
- Brazilian pepper tree
- Canary Island date palm
- Eucalyptus
- Mexican fan palm
- Other Woody Species

Point Species

- Castor bean
- Eupatory
- Ludwigia
- Pampas grass

Other

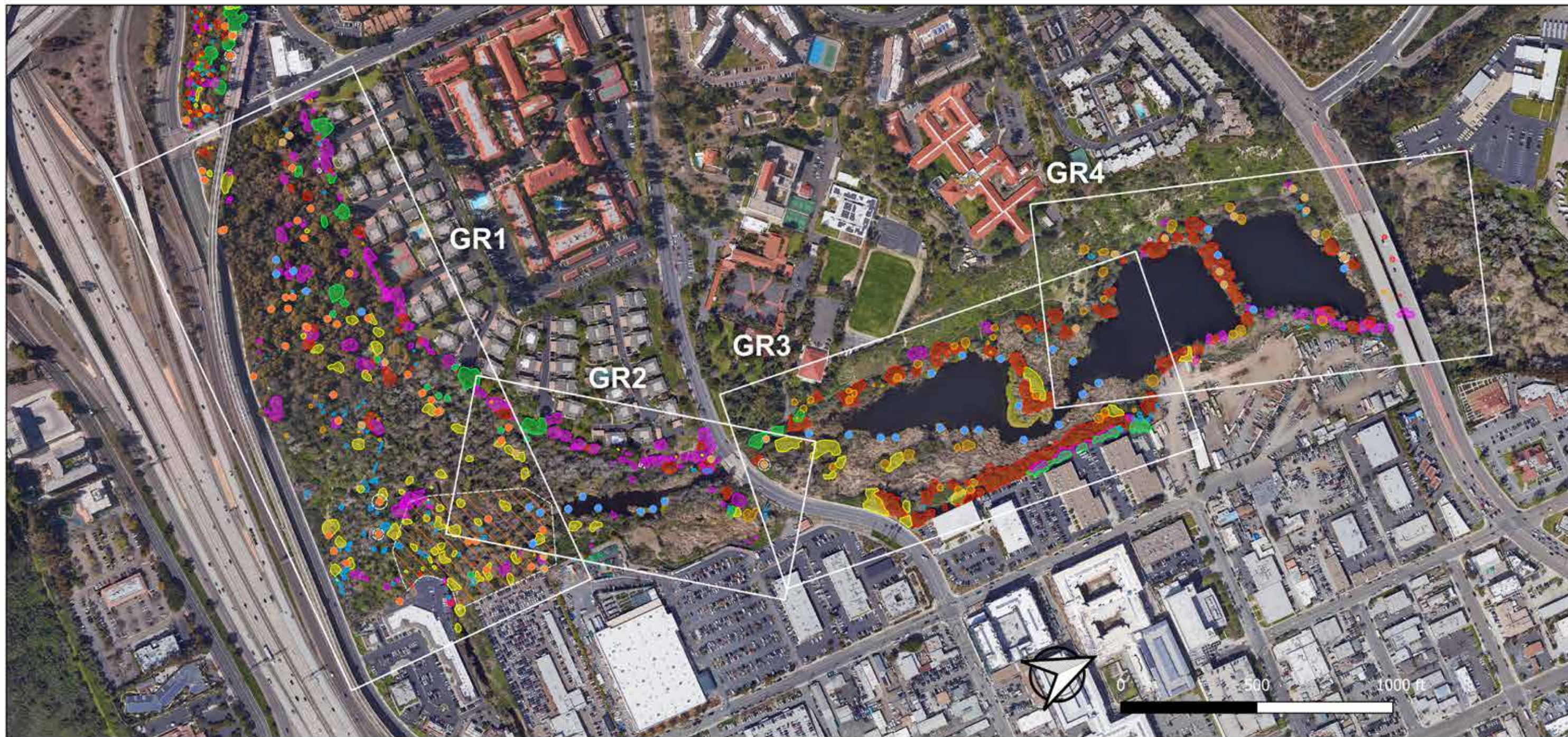
- Project Area

Data collection by: San Diego River Park Foundation in 2020

Section: ME2



Basemap data: Google, Maxar Technologies; SanGIS



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Canopy Species	Point Species	Other
Arundo	Castor bean	Sections
Brazilian pepper tree	Eupatory	Project Area
Canary Island date palm	Ludwigia	
Eucalyptus	Pampas grass	
Mexican fan palm	Impacted area (Castor bean)	
Tamarisk		
Other Woody Species		

Data collection by: San Diego River Park Foundation in 2020



Basemap data: Google, Maxar Technologies; SanGIS



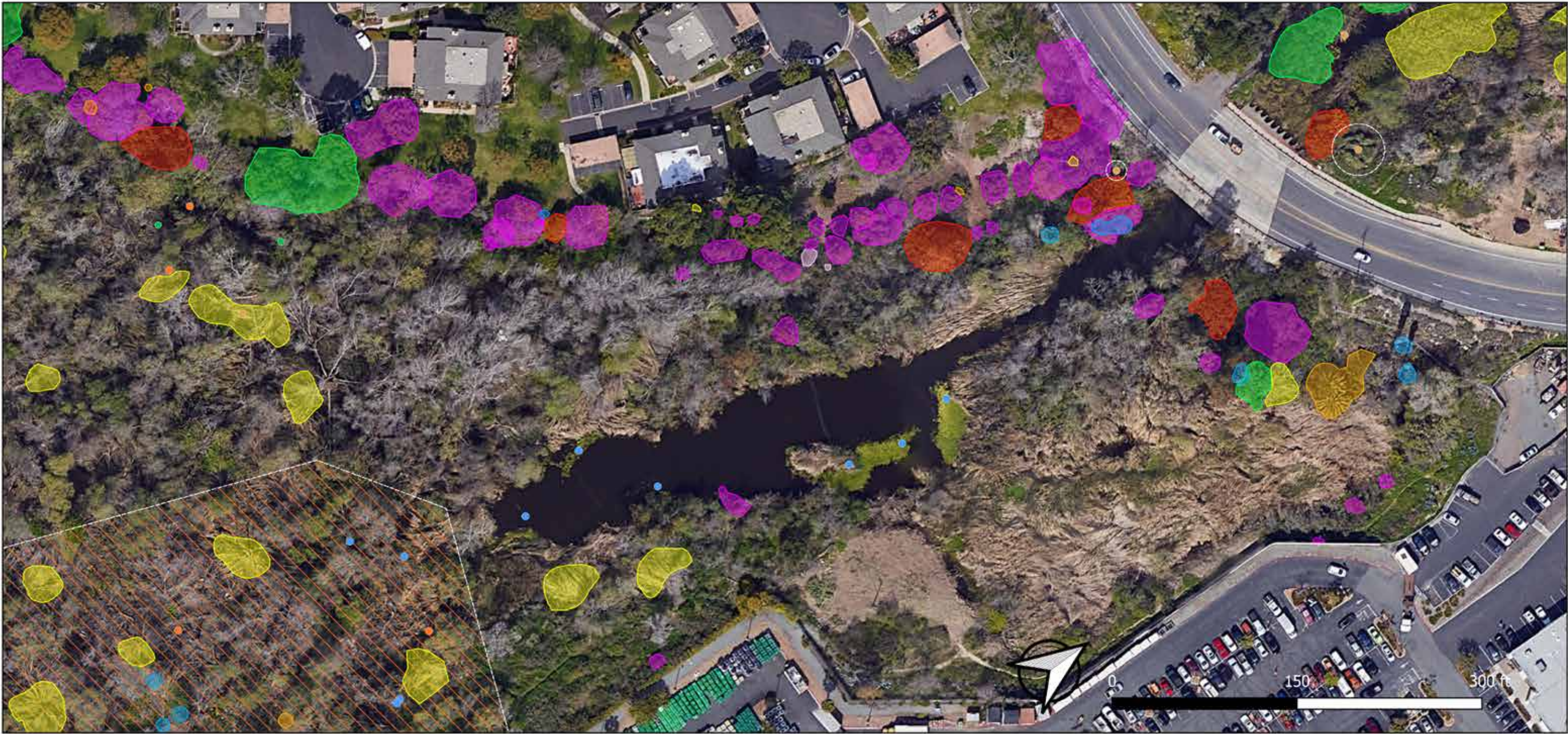
Authorized by San Diego River Park Foundation with funding from



Canopy Species	Point Species
Arundo	Castor bean
Brazilian pepper tree	Eupatory
Canary Island date palm	Ludwigia
Eucalyptus	Pampas grass
Mexican fan palm	Impacted area (Castor bean)
Tamarisk	
Other Woody Species	

Data collection by: San Diego River Park Foundation in 2020





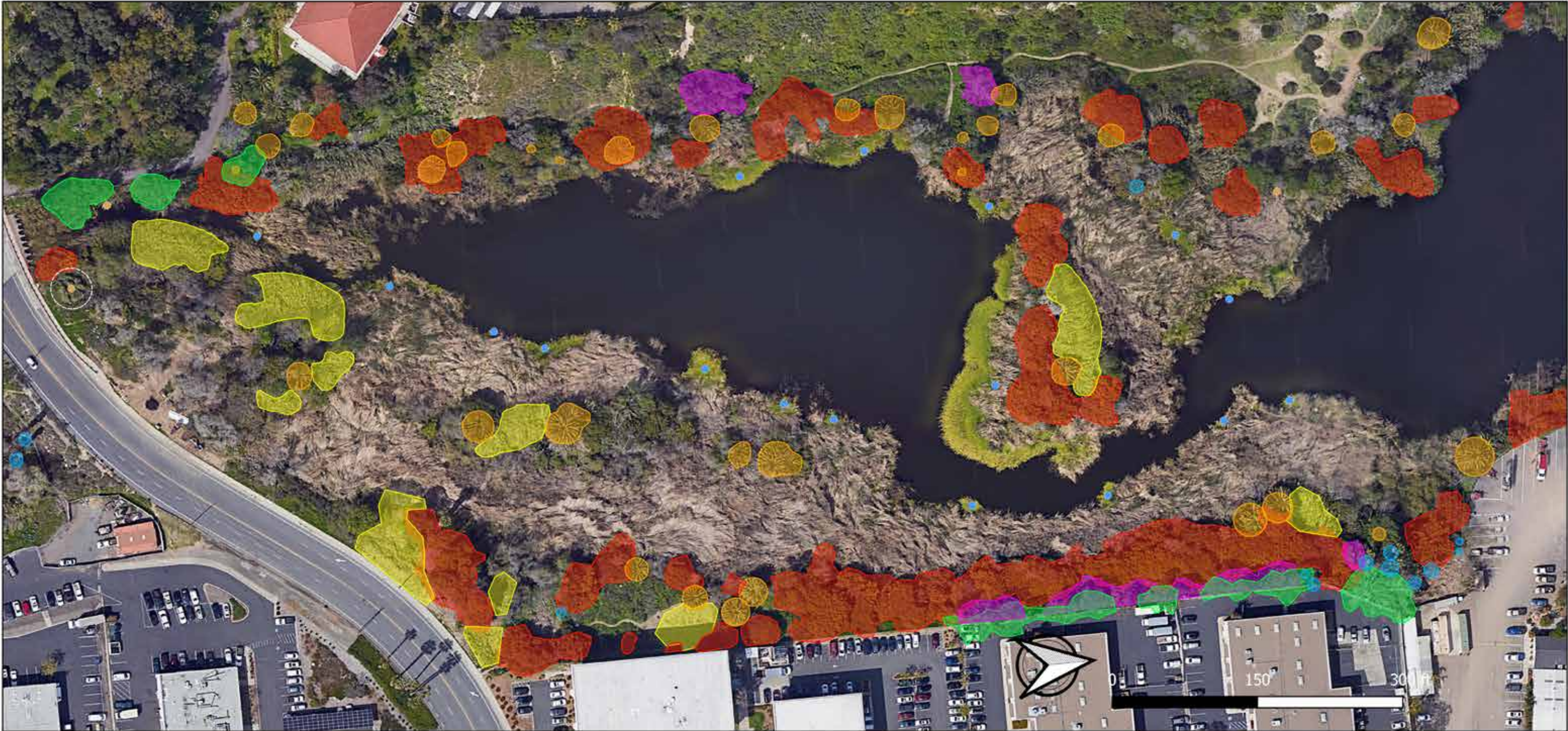
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- | | |
|-------------------------|-----------------------------|
| Canopy Species | Point Species |
| Arundo | Castor bean |
| Brazilian pepper tree | Eupatory |
| Canary Island date palm | Ludwigia |
| Eucalyptus | Pampas grass |
| Mexican fan palm | Impacted area (Castor bean) |
| Tamarisk | |
| Other Woody Species | |

Data collection by: San Diego River Park Foundation in 2020





Authorized by San Diego River Park Foundation with funding from



- | | |
|---|--|
| Canopy Species | Point Species |
| ■ Arundo | ● Ludwigia |
| ■ Brazilian pepper tree | ● Pampas grass |
| ■ Canary Island date palm | |
| ■ Eucalyptus | |
| ■ Mexican fan palm | |
| ■ Other Woody Species | |

Data collection by: San Diego River Park Foundation in 2020





Authorized by San Diego River Park Foundation with funding from



Canopy Species

- Arundo
- Brazilian pepper tree
- Canary Island date palm
- Eucalyptus
- Mexican fan palm
- Tamarisk
- Other Woody Species

Point Species

- Ludwigia
- Pampas grass

Data collection by: San Diego River Park Foundation in 2020

Section: GR4



Basemap data: Google, Maxar Technologies; SanGIS



Authorized by San Diego River Park Foundation with funding from



Canopy Species

- Arundo
- Brazilian pepper tree
- Canary Island date palm
- Eucalyptus
- Mexican fan palm
- Tamarisk
- Other Woody Species

Point Species

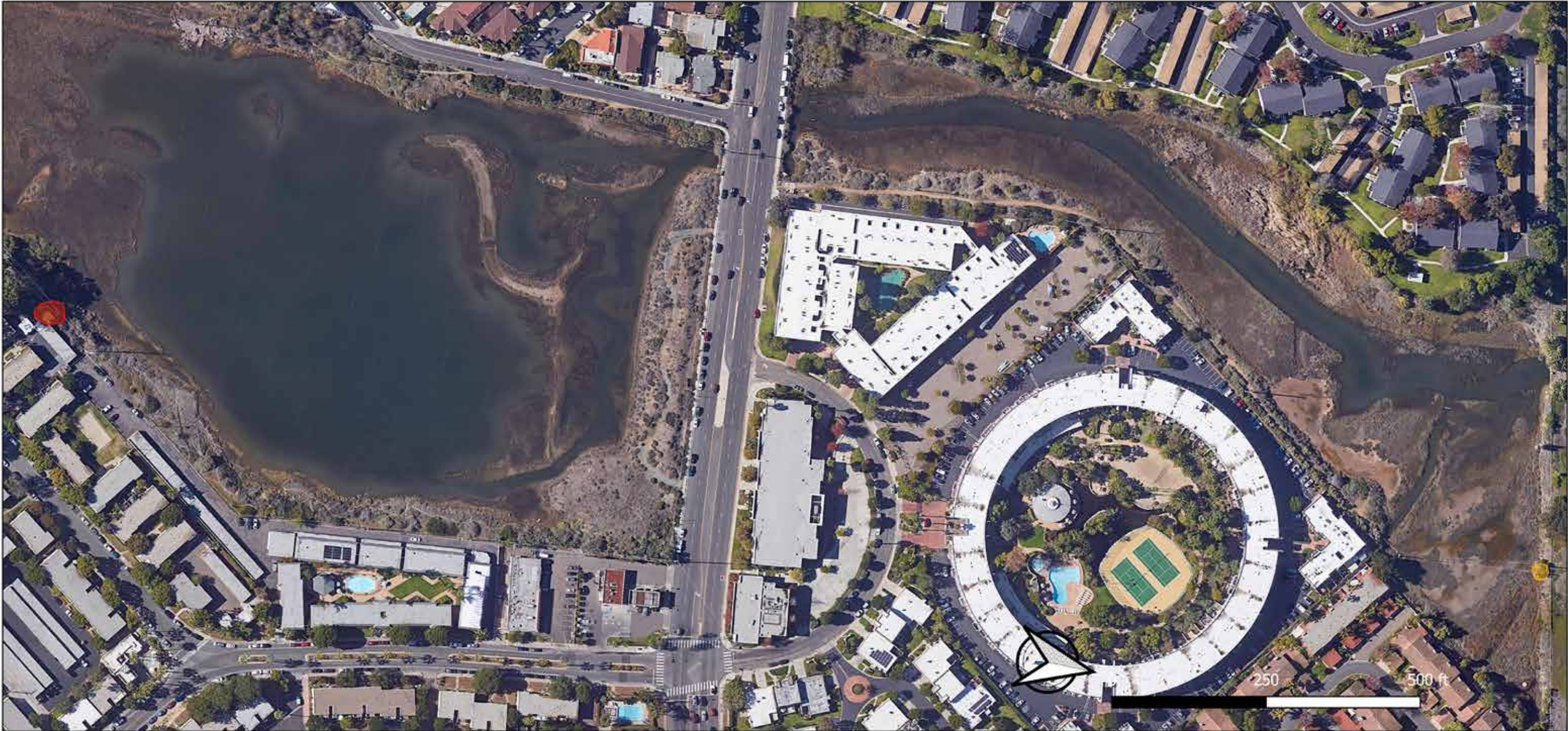
- Castor bean
- Eupatory
- Ludwigia
- Pampas grass
- Sea Lavender
- Water lettuce
- Yellow flag iris

Other

- Sections
- Project Area
- Fairmount Fire

Data collection by: San Diego River Park Foundation in 2020





Authorized by San Diego River Park Foundation with funding from



Canopy Species

- Brazilian pepper tree
- Canary Island date palm



Data collection by: San Diego River Park Foundation in 2020

Basemap data: Google, Maxar Technologies; SanGIS



Authorized by San Diego River Park Foundation with funding from



- | | |
|-------------------------|----------------------|
| Canopy Species | Point Species |
| Arundo | Castor bean |
| Brazilian pepper tree | Pampas grass |
| Canary Island date palm | |
| Eucalyptus | |
| Mexican fan palm | |

Data collection by: San Diego River Park Foundation in 2020





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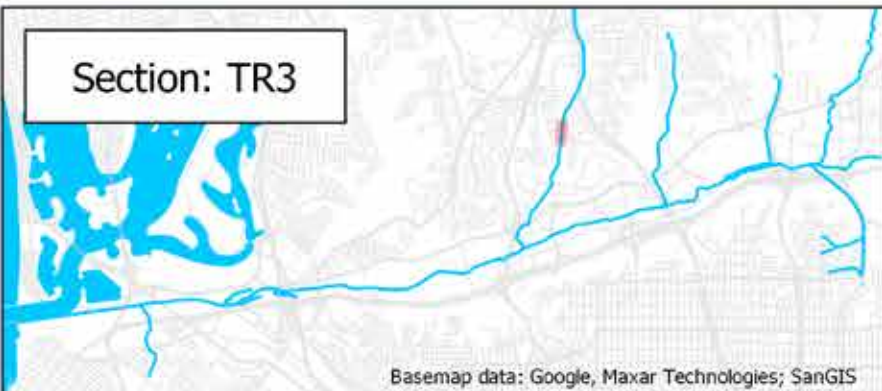
Canopy Species

- Arundo
- Brazilian pepper tree
- Canary Island date palm
- Mexican fan palm
- Other Woody Species

Point Species

- Pampas grass

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Group1

Canopy Species

- Arundo
- Brazilian pepper tree
- Canary Island date palm
- Mexican fan palm
- Other Woody Species

Point Species

- Pampas grass

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- Canopy Species
- Arundo
 - Brazilian pepper tree
 - Mexican fan palm
 - Tamarisk
 - Other Woody Species

- Point Species
- Castor bean

Data collection by: San Diego River Park Foundation in 2020





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Canopy Species

- Brazilian pepper tree
- Eucalyptus
- Mexican fan palm
- Tamarisk
- Other Woody Species

Data collection by: San Diego River Park Foundation in 2020

Section: TR6



Basemap data: Google, Maxar Technologies; SanGIS



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Canopy Species

- Brazilian pepper tree
- Eucalyptus
- Mexican fan palm
- Tamarisk
- Other Woody Species

Data collection by: San Diego River Park Foundation in 2020

Section: TR6



Basemap data: Google, Maxar Technologies; SanGIS



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Canopy Species

- Brazilian pepper tree
- Canary Island date palm
- Eucalyptus
- Mexican fan palm
- Tamarisk
- Other Woody Species

Point Species

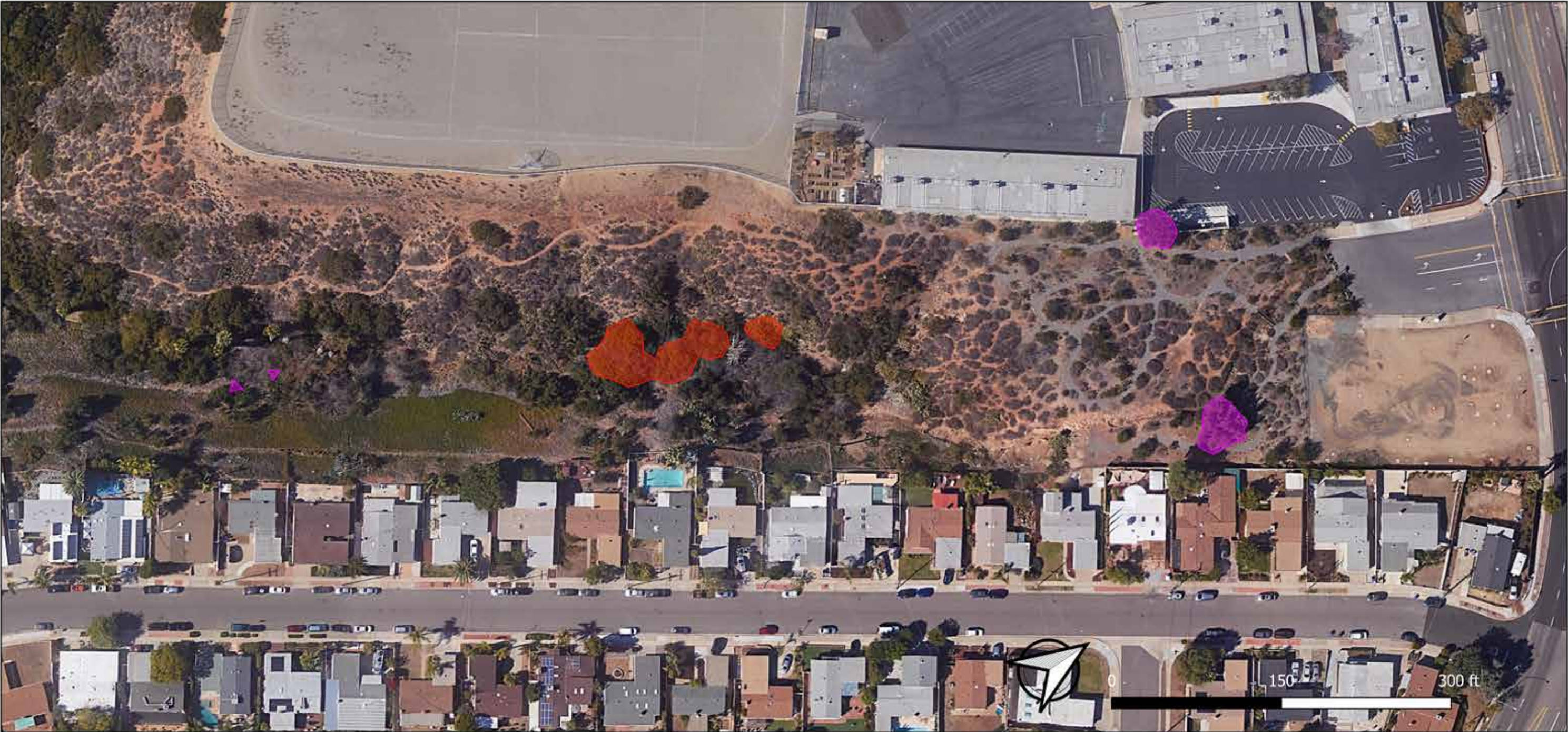
- Pampas grass

Data collection by: San Diego River Park Foundation in 2020

Section: TR7



Basemap data: Google, Maxar Technologies; SanGIS



Authorized by San Diego River Park Foundation with funding from



- Canopy Species
- Brazilian pepper tree
 - Other Woody Species

Data collection by: San Diego River Park Foundation in 2020





Authored by San Diego River Park Foundation with funding from



Canopy Species

- Brazilian pepper tree
- Canary Island date palm
- Eucalyptus
- Mexican fan palm
- Other Woody Species

Point Species

- Castor bean
- Pampas grass

Data collection by: San Diego River Park Foundation in 2020

Section: TR9



Basemap data: Google, Maxar Technologies; SanGIS



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- | Canopy Species | Point Species |
|--|--|
| Arundo | Castor bean |
| Brazilian pepper tree | Pampas grass |
| Canary Island date palm | |
| Mexican fan palm | |
| Other Woody Species | |

Data collection by: San Diego River Park Foundation in 2020





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Canopy Species

- Brazilian pepper tree
- Canary Island date palm
- Eucalyptus
- Mexican fan palm
- Tamarisk
- Other Woody Species

Point Species

- Pampas grass

Data collection by: San Diego River Park Foundation in 2020





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Canopy Species

- Brazilian pepper tree
- Canary Island date palm
- Eucalyptus
- Mexican fan palm

Point Species

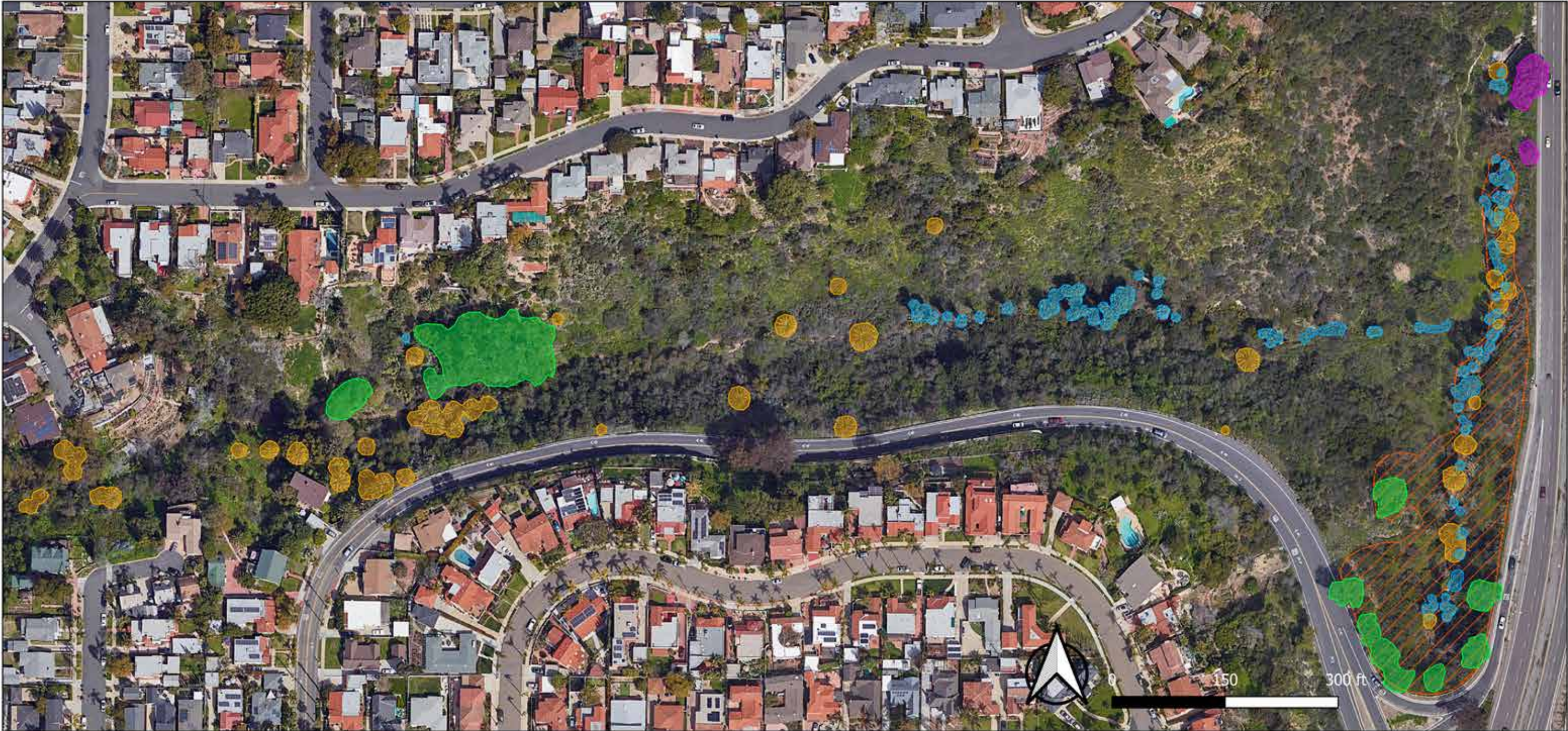
- Castor bean

Data collection by: San Diego River Park Foundation in 2020

Section: TR12



Basemap data: Google, Maxar Technologies; SanGIS



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- | | |
|-------------------------|----------------|
| Canopy Species | Other |
| Canary Island date palm | Fairmount Fire |
| Eucalyptus | |
| Mexican fan palm | |
| Other Woody Species | |

Data collection by: San Diego River Park Foundation in 2020



Basemap data: Google, Maxar Technologies; SanGIS



This mapping is a project of the San Diego River Park Foundation.

The San Diego River Park Foundation is dedicated to fostering stewardship and appreciation of the region's namesake waterway. In order to protect and enhance the San Diego River as a place for recreation, habitat, and nature discovery, we are dedicated to engaging people to be stewards of the River and working towards the vision of a 52 mile, river-long system of parks, open spaces, and community places.

The San Diego River Park Foundation is a 501(c)3 community-benefit nonprofit.

For questions about this project, the invasive plant data or the San Diego River, please contact:

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**Connect.
Create.
Conserve.**