

# **MARINA DEL REY 2025 ANNUAL LEVEL 2 TREE RISK ASSESSMENT REPORT FINAL VERSION**

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## 1.0 Executive Summary

Amigo Environmental, LLC (Amigo) was retained the County of Los Angeles (County) Department of Beaches and Harbors (DBH) to perform the annual 2025 **Level 2 Tree Risk Assessment**<sup>1</sup> within the coastal community limits of Marina del Rey, a Census Designated Place. A total of 47 trees have undergone the annual DBH 2025 Level 2 Tree Risk Assessment. This report will discuss the methods and results of the annual DBH 2025 Level 2 Tree Risk Assessment and provide recommended management options for each tree assessed. A summary of the results and recommended management options are provided in Table 1.

**TABLE 1: SUMMARY OF DBH 2025 LEVEL 2 TREE RISK ASSESSMENT**

| ISA TRAQ Risk Rating | Number of Trees       | Recommended Management Options |                      |                                     |                                      |
|----------------------|-----------------------|--------------------------------|----------------------|-------------------------------------|--------------------------------------|
|                      |                       | Proactive Removal              | Mitigation (Pruning) | Event-Based Monitoring <sup>a</sup> | Level 3 Risk Assessment <sup>b</sup> |
| High                 | 20                    | 20                             | -                    | -                                   | -                                    |
| Moderate             | 24                    | 6                              | 1                    | 15                                  | 2                                    |
| Low                  | 3                     | -                              | 3                    | 2                                   | -                                    |
| <b>Total</b>         | <b>47<sup>c</sup></b> | <b>26</b>                      | <b>4</b>             | <b>17</b>                           | <b>2</b>                             |

<sup>a</sup> An annual tree risk survey is an adequate schedule for basic monitoring. Event-based monitoring would be performing an additional Level 2 Tree Risk Assessment within 24- to 72-hours after a severe (or extreme) weather- or geophysical-based event (storms, heatwave, earthquake) or any other type of known event that could deleteriously affect the structural integrity and/or stability of the tree.

<sup>b</sup> In addition to Event Monitoring.

<sup>c</sup> Total trees assessed does not include Tree VC-10 which was removed prior to commencing the Level 2 Tree Risk Assessment and Tree VM-138 which was removed during the Level 2 Tree Risk Assessment.

## 2.0 INTRODUCTION

### 2.1 Background and History

On July 8, 2025, DBH provided Amigo with a County and/or DBH tree inventory database(s) of approximately 1,965 trees within the coastal community limits of Marina del Rey. On July 15, through July 20, 2025, Amigo conducted the annual DBH 2025 **Level 1 Tree Risk Assessment** of 1,965 trees.

The results of the annual DBH 2025 Level 1 Tree Risk Assessment identified trees that may require an additional and higher-level risk assessment or immediate attention by DBH. Based on the results of the DBH 2025 Level 1 Tree Risk Assessment, DBH selected 47 trees to undergo the annual DBH 2025 Level 2 Tree Risk Assessment. On August 26, through August 29, 2025, Amigo conducted the annual DBH 2025 Level 2 Tree Risk Assessment of 47 trees.<sup>2</sup>

### 2.2 Assignment

Based on the DBH 2025 Marina del Rey Tree Risk Assessment Scope of Work, Amigo was retained by the County and DBH to provide the following arboricultural consulting services memorialized in this report and enumerated below:

- Designate Ms. Kate Ricci, DBH Coastal Resiliency Planner, as the primary contact for the assignment.

<sup>1</sup> All bolded terms in this report are provided their definitions within the report glossary located in Section 6.0 below.

<sup>2</sup> Prior to Amigo commencing the Level 2 Tree Risk Assessment Tree VC-10 (a Coral Tree [*Erythrina caffra*] selected by DBH to undergo a Level 2 Assessment) was proactively removed by DBH. During the Level 2 Tree Risk Assessment Tree VM-138 (a Coral Tree) was proactively removed by DBH.





- Perform a Level 2 Basic Tree Risk Assessment utilizing a **risk assessment protocol** in tandem with the **International Society of Arboriculture (ISA) Tree Risk Assessment Qualification (TRAQ) system** for all DBH selected trees designated for a Level 2 Tree Risk Assessment.
- Provide a **risk rating** to support DBH in determining an acceptable level of risk and to make an informed decision concerning the most appropriate and applicable management recommendation(s) for each of the 47 selected trees based on the findings of the contracted arborist.
- Provide an independent, objective opinion regarding the general (and where appropriate, specific) structural stability of all DBH selected trees designated for a Level 2 Tree Risk Assessment
- Provide recommendations for the continued care and management of all DBH selected trees designated for a Level 2 Tree Risk Assessment, as applicable to their general and specific structural stability, including risk mitigation and abatement.
- Prepare a written report documenting the assessment methods, the results of the inspections, and a summary of the observations, opinions, and recommendations to DBH.

### 2.3 Limitations of the Assignment

When conducting structural stability and tree hazard assessments, limitations arise from the subjective nature of risk perception, the difficulty in predicting long-term tree health and failure, and the potential for unforeseen circumstances, requiring a balance of scientific knowledge with practical experience.

- This Level 2 Basic Tree Risk Assessment and the ISA TRAQ system are limited to the purpose of determining a hazard rating of a tree(s) and the appropriate management recommendation(s) which is/are based on the best professional judgement of the arborist. No other conditions of the subject trees designated by DBH within the community limits of Marina del Rey are included. No assessments of trees occurring within adjacent county or municipal properties beyond the community limits of Marina del Rey are considered in this report. Only specified tree hazard conditions were assessed. Related hazards such as soil stability and undisclosed past impacts to the tree are outside this scope and must be addressed separately, as determined necessary, by DBH.
- The observations and conclusions in this report are based on the contracted consultant's education, training, and experience in the field of arboriculture. The consultant cannot detect every condition located and/or concealed in the wood structure or beneath the ground that could possibly lead to the structural failure of a tree.
- The mechanisms of some types of tree failure are not fully understood. The consultant cannot guarantee that a tree will be structurally sound and safe under all circumstances, or for a specified period of time. Recommended remedial actions, such as hazard abatement through "safety pruning," may help mitigate the risk of failure but cannot guarantee the elimination of all risk of failure. Even healthy or structurally sound trees fail under certain conditions.
- The investigation was limited to a four day, ground-based, 1) visual inspection comprised of measurements and ocular and audible and estimations of the tree-hazard related ambient conditions and site features unless otherwise specified, and (where appropriate and applicable), 2) minimally invasive internal investigations for the presence and extent of wood decay at selected ground-accessible areas of selected trees that exhibit physical signatures for potential internal wood decay, as determined suitable for investigating by the consulting arborist.



- There is no warranty or guaranty, expressed or implied, that problems or deficiencies of the tree and/or subject property will not occur in the future.
- A person temporarily occupying the Marina del Rey through walking and/or driving or permanently occupying through living near or maintaining a “target” of value near a large tree is always subject to some level of risk. The only way to eliminate all risk of tree failure is to remove the tree(s) or the target, which is unfeasible.
- Unless expressed otherwise, the information in this report reflects the condition of selected trees presenting obvious structural defects within immediate proximity to life and property at the time of inspection. Other trees that can be considered as potential risk(s) commonly do not present obvious structural defects.
- No laboratory testing (e.g., soil and/or foliar analysis) was performed as part of this tree risk assessment.
- The determination of additional investigations, an acceptable level of tree-related risk, and execution of any and/or all the recommendations enumerated in this report will be incumbent on the tree owner(s) and/or manager(s).

## 2.4 Purpose and Use of Report

The purpose of this report is to inspect, assess, and document the hazard potential to life and property of the 47 DBH selected trees, at the time of the assessment, and to ascertain a risk rating these trees present to life and property by conducting a Level 2 Basic Tree Risk Assessment utilizing a **Risk Assessment Protocol** and the ISA TRAQ system. This primary use of this report is intended to determine and define the **hazard** and **risk** of the subject trees for DBH in 2025. The secondary use of this report is intended to support the DBH in determining an acceptable level of risk and making an informed decision concerning the most appropriate and applicable management recommendations.

This report is designated for the exclusive use of the County and DBH and will be suitable to pursue compliance with any regulated tree management option or stakeholder concern involving pruning live branches or complete tree removal.

## 3.0 OBSERVATIONS

### 3.1 The Site

Marina del Rey has a Mediterranean climate, characterized by mild, wet winters and warm, dry summers, with temperatures that are relatively stable year-round and influenced by the Pacific Ocean. The collective site topography of Marina del Rey is flat and is composed of hardscaping and maintained landscaping. Irrigation is generally not a consistent component of the urban forest. The 47 trees are all part of the Marina del Rey urban forest managed by DBH and are composed of **parkway trees**, street median trees (or street trees), public park trees, parking lot trees, and public easement trees. All 47 trees are associated with targets. The 47 trees are distributed throughout 12 general areas or neighborhoods of Marina del Rey (Table 2) (Appendix A: Exhibit 1).

**TABLE 2: DISTRIBUTION OF THE 47 TREES UNDERGOING LEVEL 2 TREE RISK ASSESSMENT**

| Marina del Rey Area or Neighborhood | Number of Trees |
|-------------------------------------|-----------------|
| Admiralty Way (AD) Group            | 4               |
| Bali Way (BA) Group                 | 1               |
| Burke Park (BP) Group               | 5               |
| Chace Park (CP) Group               | 8               |
| Fiji Way (FJ) Group                 | 6               |
| Marina Beach (MB) Group             | 1               |
| Mindanao Way (MN) Group             | 2               |



| Marina del Rey Area or Neighborhood | Number of Trees |
|-------------------------------------|-----------------|
| Oxford Basin (OX) Group             | 3               |
| Palawan Way (PL) Group              | 3               |
| Panay Way (PN) Group                | 4               |
| Visitors Center (VC) Group          | 9               |
| Via Marina (VM) Group               | 1               |
| <b>Total</b>                        | <b>47</b>       |

### 3.2 Investigation Methods

On August 26, through August 29, 2025, Amigo conducted the annual DBH 2025 Level 2 Tree Risk Assessment of the 47 trees selected by DBH. The following investigation methods were used:

- a. A general site walk visually inspecting and recording the site conditions of each tree which included a 360-degree ground-based visual examination of the tree's roots, trunk, and crown/canopy (including limbs and branches) to detect structural defects on each of these tree components and assess the type and location (proximity) of targets and the likelihood of failure and impact on nearby targets.
- b. A detailed site walk outside and within the margins of each tree's **dripline**, visually inspecting and recording the following measurements and observations:
  - The location of the tree (in Decimal Degrees);
  - Tree Species;
  - Trunk diameter at 54-inches above natural grade (in inches [utilizing a diameter tape]) (Diameter at Standard Height [DSH]);
  - Tree height (in feet [utilizing a digital clinometer]);
  - **Canopy** radius (the width of the crown at its widest point (in feet [utilizing an open reel tape measure]));
  - Co-dominant stem diameters (in inches [utilizing both a diameter tape and when not accessible, ocular estimation]) and structural condition;
  - Structural condition of **leaders**;
  - The condition of the main trunk;
  - The condition of **main crotch**; and
  - Indicators of general tree health. An elaboration of general tree health rating metrics is provided in Table 3.

**TABLE 3: RATING FOR GENERAL TREE HEALTH**

| General Tree Health Rating Metric | Corresponding Observable Field Conditions                                                                                                                                                                                                                                             |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0                                 | Tree is dead standing presenting falling hazards                                                                                                                                                                                                                                      |
| 1                                 | Tree is in acute decline nearly dead standing                                                                                                                                                                                                                                         |
| 2                                 | Tree presents signs of acute and/or persisting stress likely not to be overcome even with intervention                                                                                                                                                                                |
| 3                                 | Tree presents signs of moderate stress indicators likely to be overcome with intervention                                                                                                                                                                                             |
| 4                                 | Tree presents some incidental stress (such as epicormic shoots, drought-related and/or crown flagging and/or dieback or experiencing sap runs and/or pitch tubes and/or frass from small wound [either from pruning cuts, initial insect or pathogen vectors, or mechanical contact]) |
| 5                                 | Tree exhibits full health and no indicators of stress or decline                                                                                                                                                                                                                      |



- Indicators of general tree vigor.<sup>3</sup> An elaboration of general tree vigor rating metrics is provided in Table 4.

**TABLE 4: RATING FOR GENERAL TREE VIGOR**

| General Tree Vigor Rating Metric | Corresponding Observable Field Conditions  |
|----------------------------------|--------------------------------------------|
| 0                                | Tree presents $\leq 5\%$ LCR               |
| 1                                | Tree presents $\leq 10\%$ LCR              |
| 2                                | Tree presents $\geq 10$ to $\leq 20\%$ LCR |
| 3                                | Tree presents $\geq 20$ to $\leq 35\%$ LCR |
| 4                                | Tree presents $\geq 35$ to $\leq 50\%$ LCR |
| 5                                | Tree presents $\geq 50\%$ LCR              |

- Indicators of tree limb and branch structure. An elaboration of tree limb and branch structure rating metrics is provided in Table 5.

**TABLE 5: RATING FOR TREE LIMB AND BRANCH STRUCTURE**

| General Tree Vigor Rating Metric | Corresponding Observable Field Conditions                                                                                                                                                                                                                                  |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0                                | All <b>Branch Density, Branch Order, Branch Angle, Branch Aspect Ratio, Branch Length, Branch Taper</b> appear absent. Tree has been completely or nearly stripped of all co-dominant and/or lateral limbs and branches                                                    |
| 1                                | Some or all Branch Density, Branch Order, Branch Angle, Branch Aspect Ratio, Branch Length, Branch Taper appear absent to acutely abnormal. Tree exhibits multiple missing and/or broken large stems (such as apical leader, co-dominant, or scaffolding limbs) and stubs  |
| 2                                | Some or all Branch Density, Branch Order, Branch Angle, Branch Aspect Ratio, Branch Length, Branch Taper appear abnormal. Tree exhibits heavy end-weight limbs, and/or acute trunk defect and/or has grossly asymmetrical crown and/or broken limbs and branches and stubs |
| 3                                | Some Branch Density, Branch Order, Branch Angle, Branch Aspect Ratio, Branch Length, Branch Taper appear suboptimal. Tree exhibits poor taper and/or slight trunk and/or structural defect, and/or has asymmetrical crown, and/or broken limbs and branches                |
| 4                                | Most or all Branch Density, Branch Order, Branch Angle, Branch Aspect Ratio, Branch Length, Branch Taper appear normal and typical Tree exhibits good taper and general crown symmetry but has 1 to 3 small to moderate broken limbs                                       |
| 5                                | Branch Density, Branch Order, Branch Angle, Branch Aspect Ratio, Branch Length, Branch Taper appear typical and/or optimal. Tree exhibits symmetrical crown and good taper distributing crown weight evenly                                                                |

- Visible cavities and decay columns within the woody portions of the tree
- The condition of the co-dominant stems and leaders
- Inspection of the upper canopy (utilizing binoculars, as applicable)

<sup>3</sup> For this Level 2 Tree Risk Assessment **Live Crown Ratio** (LCR) is used as the primary indicator of tree vigor. However, in addition to Live Crown Ratio, other indicators of tree vigor include crown density, foliage transparency, crown dieback, crown position, crown diameter, foliage color, and the absence of pests and diseases. A healthy, vigorous tree typically has a dense, healthy-colored crown with minimal transparency and dieback, a good growth rate indicated by basal area increment, and a favorable position in the canopy, while unhealthy trees exhibit physical signatures such as low Live Crown Ratio, sparse foliage, discoloration, excessive dieback, and significant pest/disease activity.

- Documentation of any points of infrastructure (e.g., sidewalk, curbs, utilities) uplift and degradation (e.g., tripping hazards) occurring adjacent, abutting and/or within the **root flare** and **root crown**. An elaboration of the root crown metrics is provided in Table 6.

**TABLE 6: RATING FOR ROOT CROWN**

| General Tree Health Rating Metric | Corresponding Observable Field Conditions                                                                                                                                                                                                                               |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0                                 | ≥50% structural roots have been removed and/or fungal fruiting bodies on root collar and/or woody structural roots and/or visible root rot                                                                                                                              |
| 1                                 | ≤50% structural roots have been removed and/or fungal fruiting bodies on root collar and/or woody structural roots and/or visible root rot                                                                                                                              |
| 2                                 | ≥35% to ≤50% of structural roots have been removed. Extensive damaged bark and root tissue. Fungal presence under dripline and/or on root collar and/or woody structural roots.                                                                                         |
| 3                                 | ≤35% structural roots removed and/or damaged. Tree presents girdling root, constricted planting basin and/or infrastructure uplift caused by roots. Soil is compacted and understory is majority hardscaped. Nominally damaged bark and root tissue                     |
| 4                                 | Trunk flare presents symmetrical and good taper and is clearly visible, with the root collar positioned at or just slightly below the soil line. Soil may be compacted, and portions of the understory are hardscaped.                                                  |
| 5                                 | Trunk flare presents symmetrical and good taper and is clearly visible, with the root collar positioned at or just slightly above the soil line. No hardscaping understory and no extensive soil compaction. No constricting, damaged structural or woody surface roots |

- The condition of the tree canopy (utilizing binoculars)
  - Previous tree wounds and **woundwood** response (including past large cuts) (utilizing binoculars)
  - Indicators of **tree stress**
    - The presence or absence and of pests, pathogens, and disease
    - The presence or absence of **saprophytes** and parasites
    - The vegetative composition and/or cover type (e.g., hardscaped) of the understory
- c. Highly limited excavations at selected areas within the dripline using a disinfected trowel.
- d. Documentation and identification of all fungal **fruiting bodies** (mushrooms) occurring with the dripline of selected trees.
- e. As applicable, co-dominant seam, crotch, and trunk cavity and other potential tree structural defect inspections, which were accessible from the ground, using a disinfected hand-held 39-inch long, 0.38-inch diameter stainless steel **inspection probe**.
- f. Audible inspections for internal wood decay estimations using a nylon **sounding mallet**.
- g. Preparation of the latest available *ISA Basic Tree Risk Assessment Form* following the guidance instructions provided by the *ISA Tree Risk Assessment Qualification (TRAQ) manual* (ISA 2003) for each tree assessed.<sup>4</sup>

<sup>4</sup> The prepared ISA TRAQ Basic Tree Risk Assessment Form is considered an internal work product of the contracted arborist. The ISA TRAQ Basic Tree Risk Assessment Form is used for data collection in the field and is considered raw data. This report analyzes and summarizes the findings and recommendations, based on the

- h. Representative photo documentation of each tree assessed using an iPhone digital camera, (Appendix B, Photos 1 through 47).

#### 4.0 TESTING AND ANALYSIS

Based upon measurements, observations, ambient conditions, and the available (albeit limited) life- and management history of the 47 subject trees selected by DBH for a Level 2 Tree Risk Assessment it has been concluded that all 47 subject trees present some level of inherent hazard to life and property within the community limits of marina del Rey. However, this report will support the determination of what level of risk is present. All trees present a potential hazard since all trees can fail for any reason. Data acquisition through testing and the analysis and interpretation of that data is critical in determining if the 47 subject trees can be confirmed by DBH as an inherent hazard where the risk of failure and resulting consequences are greater than the benefits the tree(s) provide.

Data acquisition through testing and analysis can support the conclusions and recommendations of this Level 2 Tree Risk Assessment. Finally, the results of testing and analysis will be considered the baseline for DBH to determine an acceptable level of risk and make an informed decision concerning the most appropriate and applicable management recommendation(s). The following testing and analysis were conducted during the site visit:

##### 4.1 Limited Excavations

Using a disinfected trowel limited excavations (ranging between  $\leq 2$ - to 6-inches in depth) at three selected areas within the dripline of trees that supported the fruiting bodies of the **saprophytic** mushroom false parasol (*Chlorophyllum molybdites*) populating lawn where woody surface roots are present. The excavation was performed to ascertain if the woody surface roots are being degraded and decomposed by the mushroom.

The managed lawn where the subject tree occurs supports a thin ( $\leq 2$ -inch) **humic Layer** (or organic layer) of turf composed of a decomposing thatch that appears to be comprised of compressed lawn clippings. It is understood that the **hyphae** of the false parasol mushroom typically extend to a depth of 8-inches and can extend up to 2-feet deep into the soil and/or feeding substrate. Based on the presence of woody roots occurring within 6-inches below natural grade it is assumed that these saprophytic mushrooms are completing their life cycle within the developed (and carbon-rich) thatch layer substrate of the lawn (where the subject trees are situated) and not dependent on the roots of the subject tree. The mushrooms did not follow the line or margins of any woody surface root. Therefore, these saprophytic mushroom species are not likely to affect or influence the woody surface roots of several subject trees at the time of this assessment. However, event monitoring is recommended.

##### 4.3 Inspection Probing

Probing of internal decay was undertaken on select trees using a disinfected hand-held 39-inch long, 0.38-inch diameter stainless steel inspection probe, where accessible at ground level. The probing inspection of all accessible visible and potential cavities, decay columns, co-dominant stem seams (junctions where two or more co-dominant stems meet/fuse) trunk **calving seams**, cracks, and **included bark** occurring within the main crotch was undertaken when considered warranted by the consulting arborist.

##### 4.4 Audible Inspections for Internal Decay

Using a nylon sounding mallet, where applicable and accessible, audible inspections for potential internal wood decay were performed. If available on the subject tree, to avoid false positives, sounding

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raw data collected. Therefore, the prepared ISA TRAQ Basic Tree Risk Assessment Forms, for each assessed tree, are not included in this report.





points were made starting at visually confirmed areas of known internal decay for a baseline. The primary sounding points were made at the base of the tree, starting near any visible defect (cavity or seam) and progressively out along the circumference of the lower tree trunk. The secondary sounding points were made around small exposed open seams within the main crotch of the tree and outward along to co-dominant stem attachments (if accessible).

While a sounding mallet can suggest or confirm internal wood decay it cannot quantify it (in extent [as a percentage relative to solid wood]). Therefore, sounding can be considered as a classification (or conception) point for confirming the presence of internal decay (in the form of a cavity or hollow) while requiring additional and more tangible (e.g., quantifiable) diagnostic testing to provide a threshold of acceptable stability and/or risk (which cannot be achieved with audible-based evaluations alone).

#### **4.6 ISA Tree Risk Assessment Utilizing the TRAQ System**

The ISA TRAQ system is a standardized process (including a consistent methodology) for assessing tree risk (e.g., evaluating the potential danger of a tree to life and property). The ISA TRAQ system considers and synthesizes multiple factors, including tree health, structural integrity, and potential targets within the tree's striking zone.

The collected data obtained in this structural stability assessment was applied to support the ISA TRAQ system which was used to categorize the risk rating of the tree (see Subsection 3.2 and Subsections 4.1 through 4.4, above). Obtaining a risk rating is intended to support and prioritize the appropriate management action(s), namely when the risk of mechanical failure and resulting damage and consequences are greater than the benefits the tree provides.

Following the guidance instructions provided by the *ISA Tree Risk Assessment Qualification (TRAQ) Manual* (ISA 2003) an *ISA Basic Tree Risk Assessment Form* was prepared to obtain the risk rating for the subject trees.

##### TRAQ Methodology

The components of a target in TRAQ context include identifying where the target is located in relation to the tree, the occupancy rate of that location, and whether it's practical to move or restrict access to the target if needed. Essentially, a target is anything that could be harmed by a falling tree or branch, such as people, property, or activities.

There are three components to TRAQ:

1. Likelihood of Failure,
2. Likelihood of Impact, and
3. Consequences of Failure and Impact to the target.

For each combination of tree parts and target, the ISA TRAQ system rates each of these three components. These components are combined based on the ISA Best Management Practices for tree risk assessment produce a risk rating for each tree part and target combination. The TRAQ system then produces an overall risk rating for the subject tree equal to the risk rating of the tree part and target combination with the highest risk rating.

##### Targets of the Subject Trees

Collectively the 47 subject trees present risks to the following five targets with a focus of complete tree failure or co-dominant stem failure.

1. Structures: while structures vary in occupancy rate, structures can be considered frequently occupied (the target zone is occupied for a large portion of the day or week), and structures are impractical to relocate. Therefore, if an entire tree or co-dominant stem failure were to strike a



structure, the consequences would be significant. If any of the structures were occupied at the time of complete- or co-dominant stem failure, the consequences could be severe.

2. **Parked Vehicles:** the occupancy rate of parked vehicles occurring within the parking lots and streets can be considered as frequent. The likelihood of either a branch or the whole tree striking any parked vehicle is high. Therefore, if the entire tree or a co-dominant stem failure were to strike the parking lot or street parking, the consequences would be significant.
3. **Moving Vehicles:** moving vehicles are considered as mobile targets. Mobile targets are present within the target zone frequently during operating hours, so their occupancy rate is considered frequent. There is a high likelihood of striking a moving vehicle due to the frequent occupancy rate. If either a complete-, co-dominant stem or a branch failure were to strike a moving vehicle, the consequences would be severe.
4. **Pedestrians:** Pedestrians are considered mobile targets. Pedestrians are present within the target zone frequently. There is a high likelihood of striking a pedestrian due to the frequent occupancy rate during operating hours. If either a complete-, co-dominant stem or a branch failure were to strike a moving vehicle, the consequences would be severe.
5. **Landscaping (including hardscaping [facilities]):** Landscaping and hardscaping encompass the subject tree and occur within the target zone. Landscaping and hardscaping are considered to have a constant occupancy rate because they are fixed in place and impractical or infeasible to relocate. If either a complete-, co-dominant stem or a branch failure were to fail, there is a high likelihood of striking landscaping and/or hardscaping, the consequences would be minor.

### Risk Rating

Based on TRAQ system of combining the evaluation of 1) targets and tree parts, 2) the likelihood of failure, 3) the likelihood of impact, and 4) the consequences of failure and impact of any one of the 47 subject trees. The TRAQ assessment results in a final risk rating, typically falling into the following four categories

1. **Low Risk:** Negligible to acceptable risk, typically with no action required.
2. **Moderate Risk:** Typically requires monitoring and/or management actions.
3. **High Risk:** Indicates potential for significant damage or injury and requires immediate attention.
4. **Extreme Risk:** A very severe potential outcome that requires urgent action

## **5.0 RESULTS**

The results and corresponding management recommendations of this Level 2 Tree Risk Assessment for each of the 47 DBH selected trees are provided in the Results Matrix located in Appendix C.

### **5.1 Coral Tree Discussion**

There are no known peer-reviewed scientific studies establishing a median lifespan or long-term mortality rates of the coastal coral tree in urban Southern California. A literature search resulted in the *general and undocumented* understanding that there is no definitively accepted average lifespan of the coastal coral tree. It is generally understood that the lifespan of the coastal coral tree is *estimated* to range between 40 and 150 years (the maximum lifespan being under optimal conditions) and that any range of lifespan is dependent on the immediate habitat of these tree species. Urban habitats generally truncate maximal tree lifespan and vigor.





There is no official historical record of when the coastal coral trees were installed/planted within the confines of Marina del Rey. While an exact planting date for the coastal coral trees in Marina del Rey is not available, it is generally thought the coastal coral tree installations occurred during the marina's construction and development, which began in the early 1960s and soon after the marina's completion in the early 1970s. Therefore, the age class of these trees can be considered mature based on the general assumption that they range in age from 50 to 60 years.

Given their typical lifespan and present stress-related dormancy, most urban coastal coral trees surveyed are now considered senescent and in rapid decline. The majority of the coastal coral trees surveyed exhibit stress-related dormancy well into the budding-leafing out period (which generally occurs between March through May). Many of the coastal coral trees exhibited less than a 5% live crown ratio in late August which further compound tree stress and decline that may contribute to tree mortality and/or be unrecoverable to full health and vigor resulting in tree-related hazard conditions.

For any consideration of short-term (e.g.,  $\leq 1$ -year) or long-term (e.g.,  $\geq 1$ -year) retention of the coastal coral trees recommended for proactive removal, a Level 3 Assessment is recommended. A Level 3 Assessment would include 1) comprehensive background research of individual tree and its immediate habitat (including supplemental irrigation patterns and management intervention[s]), 2) understory review, 3) root crown examination, 4) a 'scratch test' and twig flex-test to ascertain extent of dieback and remaining living vascular system, and 5) an optional Resistograph internal investigation for the presence and extent of internal decay.

## 6.0 GLOSSARY

**Ambient Conditions:** The surrounding environmental factors of a living organism that influence its growth, health, and survival, including (but not limited to) biotic and abiotic factors such as temperature, humidity, sunlight, soil composition, and precipitation, which influence the physical condition and expression of the living organism at the time of the general assessment or specific inspection. In addition to the aforementioned biotic and abiotic factors above, ambient conditions for a tree risk assessment also include consideration of 1) surrounding vegetation (competition and suppression), 2) target type, target use, target frequency, and target proximity, 3) history of the site/immediate habitat, 4) known disturbances, and 5) past similar failure events.

**Branch Aspect Ratio:** the ratio of branch diameter to trunk diameter, both measured immediately above the union. The branch aspect ratio indicates the relative size of the branch compared to the trunk, which can influence branch stability and susceptibility to breakage.

**Branch Density:** The number of branches per unit area or volume of the tree crown. The location of a branch relative to the trunk and other branches (the spatial arrangement of branches and their interaction with the environment) A good balance of branch density is critical for a tree's health and structural integrity. Excessively dense or sparse branching can lead to problems like reduced light penetration, increased susceptibility to disease, or weakened structure.

**Branch Length:** The distance from the branch's point of origin (e.g., on the trunk) to its tip which quantifies the extent of branching and the overall size and symmetry (balance) of the tree crown.

**Branch Order:** The hierarchical level of a branch in the tree structure. The main trunk is considered the first-order branch. Branches arising from the main trunk are considered second-order branches, trending to the smallest woody branches, often twigs, which may be referred to as fourth-order branches in a mature tree. Each branch junction (where one stem splits into more) is a "node," and each branch is an "internode". Branch orders are determined by counting these nodes and internodes, starting with the smallest twigs as order 1 and working towards the main trunk. As you move towards the main trunk, count each branch junction (node) and branch (internode) to determine the branch order.



**Branch Taper:** taper is the rate of decrease in stem diameter with increasing height from ground level to the tree tip. Branch taper contributes to branch structural strength and flexibility, aiding wind resistance and preventing breakage. Branch taper is a natural outcome of a tree's healthy growth pattern, where the branches gradually narrow towards the tip. Branch taper can also be induced through intervention by applying proper pruning techniques, encouraging a natural, healthy growth pattern.

**Canopy:** The layer of branches and leaves that cover the ground when viewed from above.

**Calving Seam:** A "calving seam" in a tree trunk refers to a distinct vertical seam, split, or crack that appears on the surface of the trunk, often resembling a calving glacier (breaking apart), and can indicate internal structural issues with the tree. Common (but not all) probable causes of calving seams and cracks are factors of weather (frost, wind, prolonged droughts), significant mechanical stressors, internal decay, and included bark (or a combination of some of these and other factors). It should be noted that "calving" as applied in the context of a tree is not necessarily a technical term, but a descriptive term, for a tree trunk splitting apart on its own due to the factors mentioned above.

**Canopy:** The collective term for the branches, leaves, and other foliage that make up the top part of a tree. "Tree crown" and "tree canopy" are often used interchangeably.

**Crown Flagging:** A condition where foliage and small branches at specific points throughout the tree's crown turn brown and die, often due to stress from various factors, including insects, diseases, or weather.

**Diameter At Standard Height:** A measurement of the tree trunk at 54-inches above natural grade.

**Dripline:** The area defined by the outermost margin (circumference extent) of a tree canopy where water drips from and onto the ground. Often considered the 'critical root zone' and 'tree protection zone' where encroachment through grading or subsurface disturbances should be avoided as much as possible and practicable.

**Fruiting Body:** The fruiting body is the visible part of the fungus (e.g., mushrooms, conks). Most of the fungus itself is typically an underground or (in the case of a tree) woody infused network of hyphae called mycelium (see the definition for hyphae, below).

**Hazard:** For a tree to be considered a hazard it must include a target (a target can be permanent [e.g., a building or utility infrastructure] and/or temporary [e.g., walking pedestrians, moving and parked cars]). The risk is the likelihood that a tree or tree part will fail and cause injury or damage to life and/or property. A tree is considered a hazard when the potential for failure and resulting damage to people or property exceeds an acceptable level of risk, requiring mitigation or abatement (mitigation and abatement both involve reducing negative impacts). The objective of mitigation is to reduce the risk or impact of a potential tree hazard in the present or future, while the objective of abatement focuses on removing a specific tree hazard.

**Humic Layer:** A humic layer in soil, or humus, is the dark and spongy topsoil layer composed of partially decomposed organic matter, formed by the breakdown of plants and animals by microorganisms.

**Hyphae:** Most multicellular fungal bodies are made up of filaments called hyphae. Hyphae are somewhat similar in concept to how the 'roots' of a plant function. Hyphae can form a network called a mycelium, which is the actual body (or thallus) of the fungus. Fungi are heterotrophs that excrete enzymes to digest food externally, then absorb the digested food. Because of this feeding strategy, fungi tend to live within whatever their food substrate is. The thin, filamentous hyphal structure allows for maximal surface area and thus, maximal contact with the food substrate.

**Included Bark:** Included bark refers to a tree structural weakness where bark is trapped within a branch union (crotch), making the union prone to splitting and failure. This trapped bark disrupts the normal formation of strong wood tissue, creating a weak point in the tree structure. Included bark occurs when two branches or stems grow too close together, forming a tight "V" shape, and the bark is trapped within the union instead of forming a strong, protective ridge.

**International Society of Arboriculture:** The ISA is a non-profit organization that promotes the professional practice of arboriculture, offering certifications and resources for tree care professionals, and fostering awareness of the benefits of trees.

**Inspection Probe:** An inspection probe used for a tree assessment is typically a long, thin, metal rod, often made of stainless steel, that is inserted into a tree to detect internal decay, rot, or hollowness. Simple probes provide tactile feedback on the presence and depth of decay. Inspection probes are considered minimally invasive.

**Leader:** The vertical stem that guides the tree's upward growth, with lateral branches, or scaffolds, emerging from it. Commonly interchangeable with co-dominant stem. In this assessment the leaders emerge from, and are subordinate to, the two larger co-dominant stems

**Level 1 Limited Tree Risk Assessment:** A Level 1 Limited Tree Risk Assessment provides a visual assessment of one or more trees, often performed quickly from a limited perspective such as a "drive-by" survey or a brief ground-based inspection. The objective of a Level 1 Limited Tree Risk Assessment is to identify visual indicators of any type of tree-related hazard and is suitable for large tree populations or situations where a detailed inspection isn't feasible. The Level 1 Limited Tree Risk Assessment typically results in a higher degree of uncertainty due to its brief nature. This assessment is the first step in the three-tiered (e.g., Level 1, Level 2, and Level 3) tree risk assessment process defined by the ISA.

**Level 2 Basic Tree Risk Assessment:** A Level 2 Tree Risk Assessment is a detailed, 360-degree ground-based (typically) visual examination of a tree's roots, trunk, and crown/canopy (including limbs and branches) to detect structural defects on each of these tree components and assess the likelihood of failure and impact on nearby targets. A Level 2 Tree Risk Assessment can also apply minimally invasive examination techniques, using basic tools like probes (tactile examination) and mallets (audible examination), to ascertain the potential presence and extent of internal decay, hollowness, or weakened wood within the tree not readily observable from a strictly visual examination. A Level 2 Tree Risk Assessment provides a moderate level of detail, commonly performed after a Level 1 Tree Risk Assessment (typically a brief, limited, visual assessment) or when a more in-depth analysis is needed for a specific tree

**Level 3 Advanced Tree Risk Assessment:** A Level 3 Advanced Tree Risk Assessments provide detailed information about specific tree parts, defects, targets, or site conditions. A Level 3 Advanced Tree Risk Assessment is the most in-depth assessment, involving specialized tools and techniques to analyze specific tree parts, site conditions, and potential risks, often used for high-risk trees or those requiring detailed analysis. Level 3 assessments go beyond a basic visual inspection and delve into specific areas. These assessments are typically used for trees posing a significant risk to property, public safety, or infrastructure, or for trees that require detailed analysis due to their historical or heritage value. Level 3 assessments may involve advanced diagnostic tools, such as resistance drilling (e.g., using a **Resistograph**®), sonic tomography, ground-penetrating radar, or tissue sampling and testing.

**Live Crown Ratio:** The percentage of a tree's total height that is occupied by live foliage, a key indicator of tree health and vigor, used in forestry and arboriculture. Live crown ratio (LCR) is calculated by dividing the height of the live crown (the part of the tree with green leaves and branches) by the total height of the tree and multiplying by 100 to express it as a percentage. A higher LCR generally indicates



a healthier, more vigorous tree with a greater capacity for photosynthesis and growth. Trees with a high LCR, particularly those with low-lying, robust branches, are often more resistant to wind damage.

**Main Crotch:** The main crotch is the space or juncture where stems grow directly from the tree trunk. In general, a tree crotch is the point where two branches, or a branch and the trunk, connect.

**Parkway Tree:** in Los Angeles County, a parkway tree is a public tree located in the easement between the sidewalk and the street, planted by the county or developer. These trees are managed by the county's Public Works department. Parkway also refers to a tree planted in the area between the curb and the sidewalk, also known as the parkway strip.

**Probable Likelihood of Failure:** In the context of the ISA TRAQ system the probable likelihood of failure is categorized as "failure may be expected within the review period" and is a higher likelihood than "possible" but lower than "imminent". There are four ISA TRAQ likelihood of failure categories:

1. Imminent: Failure has started or is most likely to occur, requiring immediate action.
2. Probable: Failure may be expected within the review period, meaning it could happen soon.
3. Possible: Failure could occur but is unlikely.
4. Improbable: The tree or branch is not likely to fail.

**Resistograph®:** A specialized tool, used to detect and assess wood-based defects in trees (and other wood structures such as utility poles), measuring the resistance of wood to a drill, and providing a visual profile of wood density and potential decay. The Resistograph® uses a small, electronically controlled drill bit that is pushed into the wood, and the resistance encountered by the drill bit is measured and displayed as a graph. The graph shows the density of the wood along the depth of the drilling, with areas of decay or hollows appearing as dips or flat lines on the graph, while solid wood shows a more jagged line. Resistograph® testing is used in tree care and inspection to assess tree health and stability, diagnose decay in wooden structures, and help determine the need for tree removal or structural repair. It should be noted that the Resistograph® measures relative drilling resistance, not absolute values. Therefore, the Resistograph® does not provide a numerical measurement of wood density but rather a profile of resistance changes as a drill penetrates the wood. This profile is interpreted to identify internal areas of tree defects (e.g., decay, hollows, or cracks), as these areas will typically exhibit lower resistance than solid wood (Mattheck et. al. 1997).

**Risk:** In the context of the ISA TRAQ system risk is defined as the combination of the likelihood of a tree failure event and the severity of the potential consequences, such as personal injury, property damage, or disruption of activities.

**Risk Assessment Protocol:** a structured set of procedures and guidelines designed to identify, assess, and manage potential risks within a specific context or industry, in this case, tree risk. A risk assessment protocol is a proactive approach to minimize harm by supporting predictability and ensure a desired outcome through risk minimization or abatement. A risk assessment protocol typically has seven basic components, but can be adjusted to the specific industry it is applied to:

1. Risk Identification
2. Risk Assessment
3. Risk Analysis
4. Risk Response Planning
5. Risk Monitoring and Control
6. Risk Communication
7. Risk Minimization and/or Abatement

**Risk Rating:** In the context of the ISA TRAQ system, a risk rating is a method of assessing the likelihood and severity of tree failure impacting a target, ultimately determining the level of risk posed by a tree.



**Saprophytic Fungi (Saprophyte):** A plant, fungus, or microorganism that lives on dead or decaying organic matter. The ubiquity and constant presence of saprophytes within nearly every known type of ecosystem occurring on earth is based on their critical role in nutrient cycling (through their decomposition process of ecosystem biomass production). Saprophytes do not typically obtain energy from living organisms and/or organic matter.

**Senescent:** the condition or process of deterioration with age and relating to, characterized by, or associated with the state of being old or the process of aging : marked by or undergoing senescence. Senescence is a specific cellular response to damage or stress, characterized by a stable growth arrest and contributing to the aging process.

**Sounding Mallet:** a mallet with a head made from hardened rubber, plastic, or nylon head, used to tap or strike a tree trunk or large co-dominant stem to assess its condition by listening to the sound produced, which can reveal internal defects or damage. ‘Sounding’ is accomplished by striking the trunk or limb with the mallet, the different sounds produced can indicate the presence of internal tree conditions like solid wood or issues like decay or hollow areas, which the arborist can make audible-based estimations of the presence, location, and potential extent of the internal conditions and issues of the tree.

**Street tree:** This is a general term for any tree in the public right-of-way along (or within) a county-maintained street.

**Target:** In the ISA TRAQ program, "targets" are people, property, or activities that could be injured, damaged, or disrupted if a tree or part of a tree fails. During a TRAQ assessment, the arborist identifies and lists potential targets within the tree's "target zone" (the area where a failure is likely to occur). The assessment then evaluates the consequences of a failure, considering factors like the type of target (e.g., stationary, movable, mobile) and its location relative to the tree

**Tree Limb and Branch Structure:** Tree limbs are primary, large divisions of a tree trunk or bough, while branches are smaller, secondary divisions that grow from the trunk or limbs. See the definitions for Branch Aspect Ratio, Branch Density, Branch Length, Branch Order, and Branch Taper, above. Branches and stems also belong to the canopy/crown of the tree. Branches and stems are essential structural and transportation components of the tree operating between the trunk and the leaves.

**Tree Risk Assessment Qualification (TRAQ) System:** A program developed by the ISA that trains arborists in a standardized, systematic method for assessing tree risk, promoting safety for people and property.

**Tree Stress:** A condition that occurs when a plant is exposed to unfavorable conditions or substances that affect its growth, development, or metabolism

**Tree Vigor:** A tree's overall health, resilience, and capacity for growth, encompassing its ability to withstand environmental stressors and maintain a healthy, productive state. Tree vigor is also a measure of a tree's vitality and strength, reflecting its ability to grow and thrive. While some factors in a tree's vigor are genetic, with some trees being naturally more resilient than others, the overall vitality of the tree can be affected by outside factors.

**Trunk Flair:** The trunk flare, also known as the root flare, is the area where a tree's trunk widens or flares out as it transitions into the root system, and it's crucial for a tree's health because it indicates where the trunk ends, and the roots begin (generally the area just above and below the interface between the trunk and soil).

**Woundwood:** a tree's response to damage, forming as a new tissue (often appearing as a callus) to close over wounds and protect the tree from pathogens and decay. Woundwood is the tissue that a tree produces to seal and protect wounds, whether from pruning, injury, or other damage.



Woundwood is a naturally developed protective element that is mechanically stronger and more chemically resistant growth of wood that will occur on the outside and edges of tree wounds.

## **7.0 REFERENCES CITED**

International Society of Arboriculture (ISA). 2003. *ISA Tree Risk Assessment Qualification (TRAQ) Manual*. First Edition.

Mattheck, C., K. Bethge, And W. Albrecht. 1997. How to Read the Results of the Resistograph. *Arboricultural Journal*. Volume 21. Pp. 331-347. Available at: <https://www.tandfonline.com/doi/pdf/10.1080/03071375.1997.9747174>.



## **APPENDIX A EXHIBITS**





## LEGEND

### Level 2 Tree Survey Results

- Safety Prune
- Event Monitor
- Proactive Removal





## LEGEND

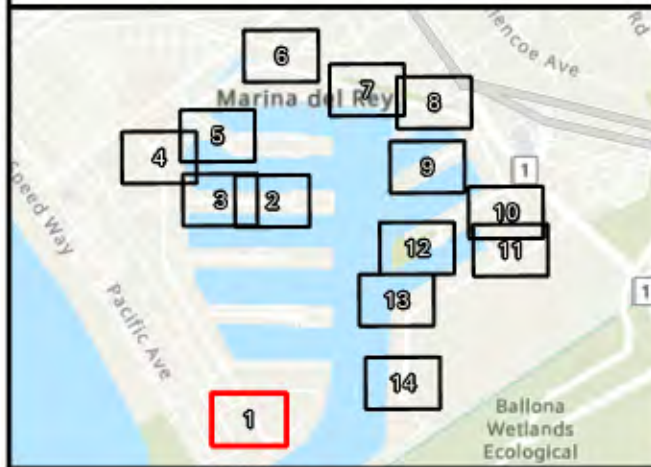
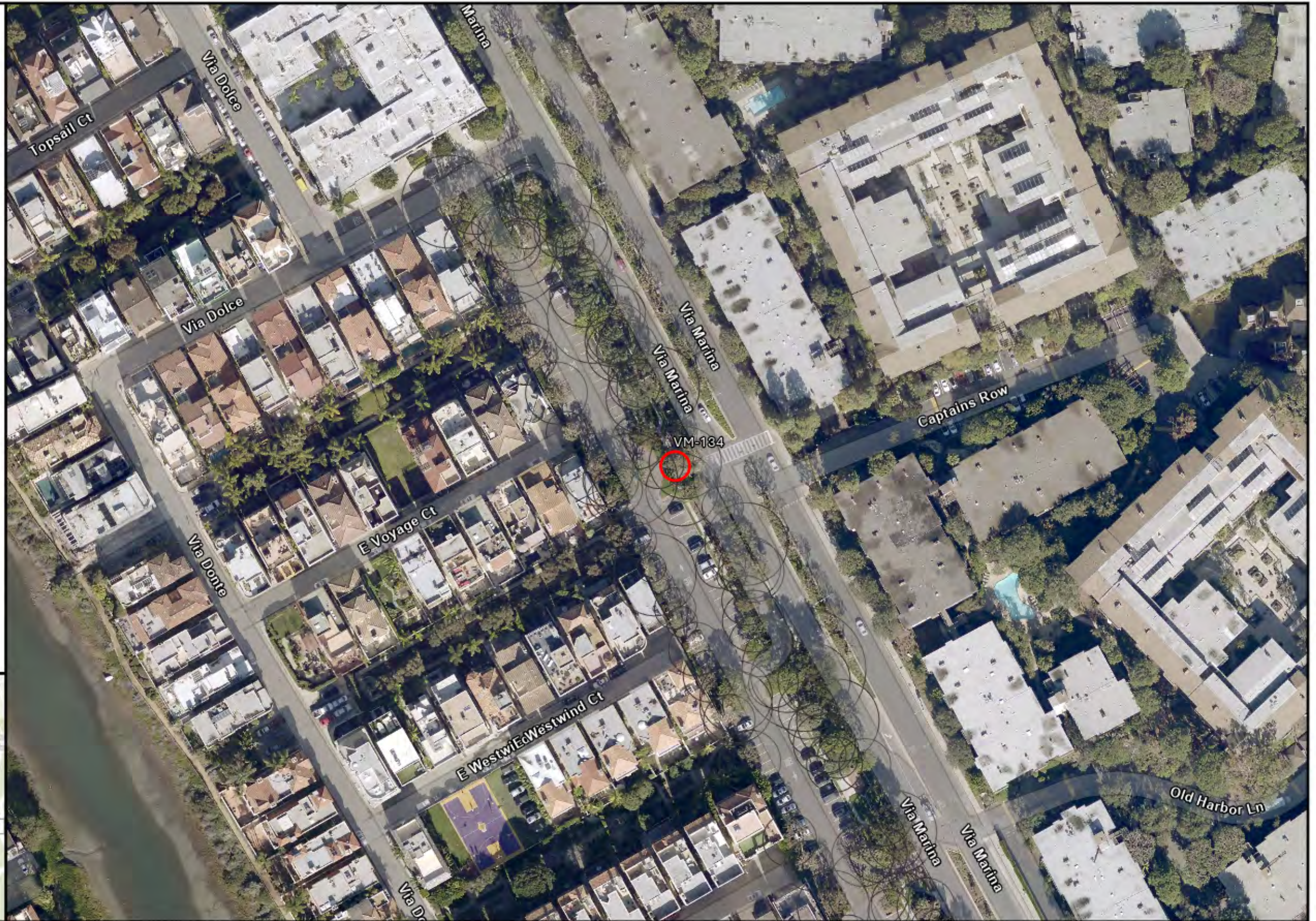
MDR Tree Inventory

### Level 2 Tree Survey Results

Safety Prune

Event Monitor

Proactive Removal





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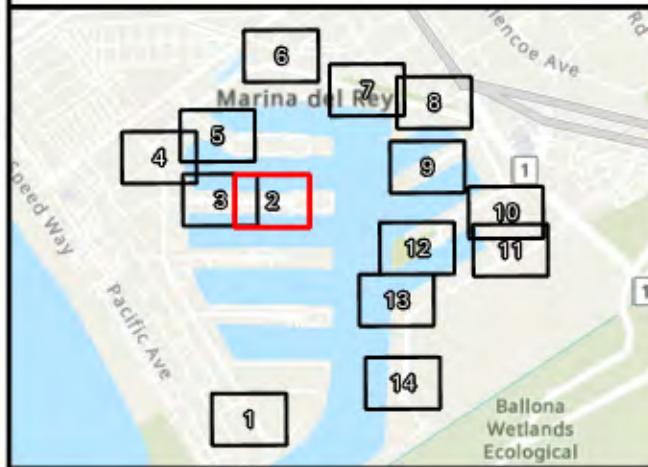
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## Level 2 Tree Survey Results

Safety Prune

Event Monitor

Proactive Removal





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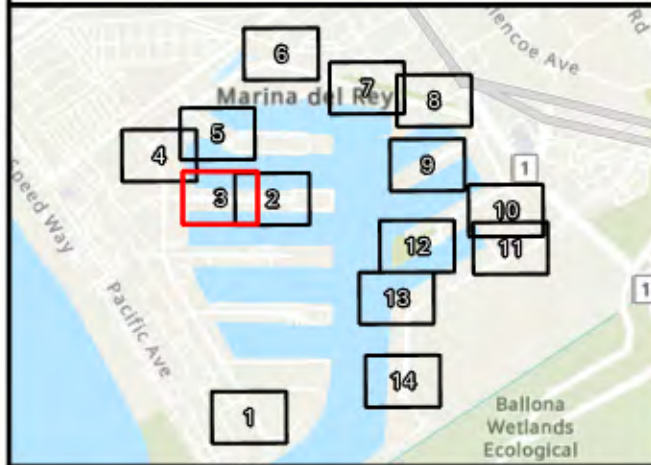
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**Level 2 Tree Survey Results**

Safety Prune

Event Monitor

Proactive Removal





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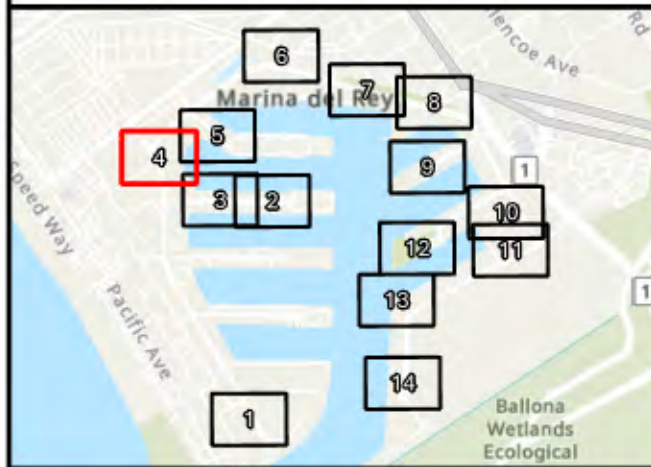
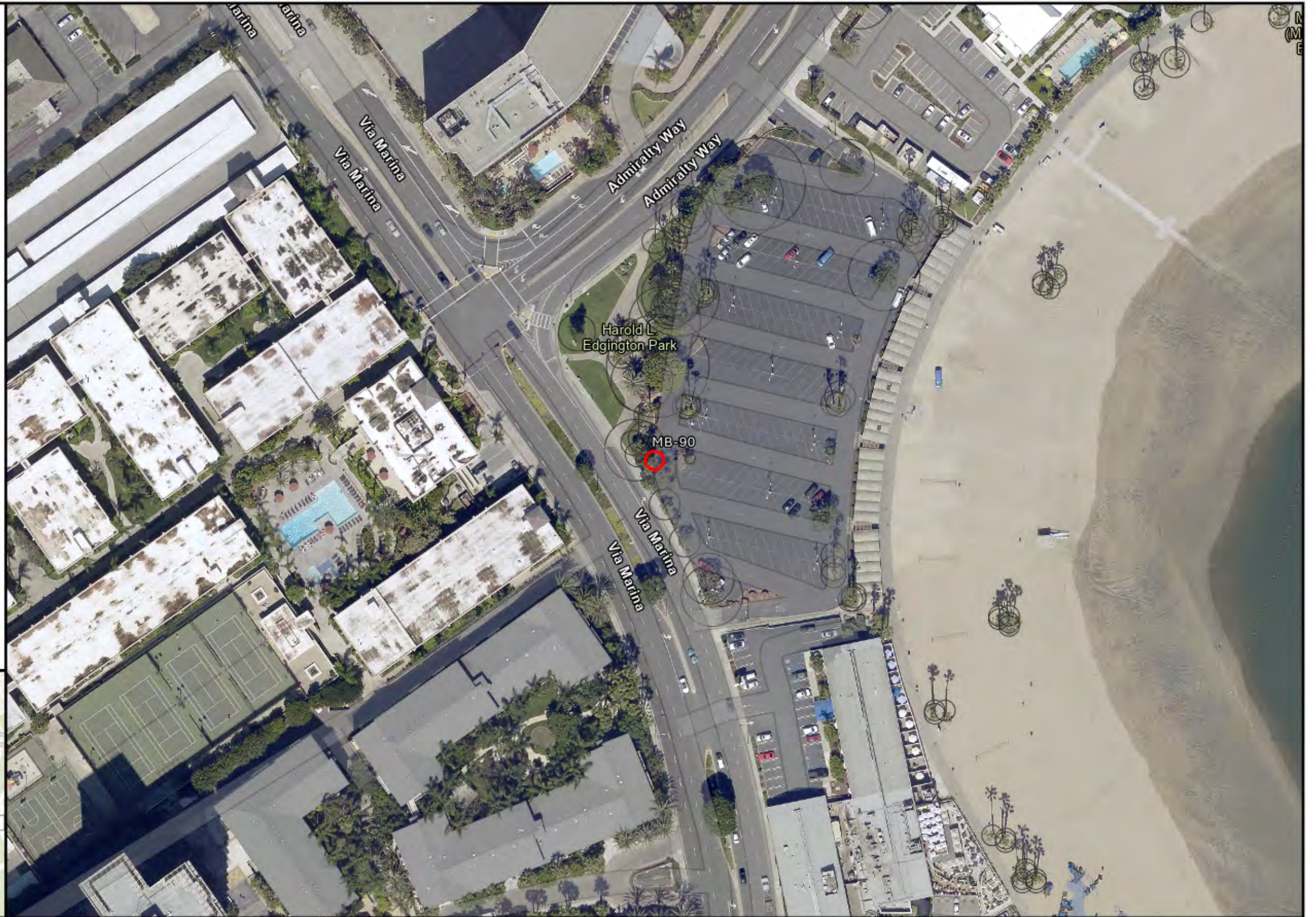
MDR Tree Inventory

### Level 2 Tree Survey Results

Safety Prune

Event Monitor

Proactive Removal





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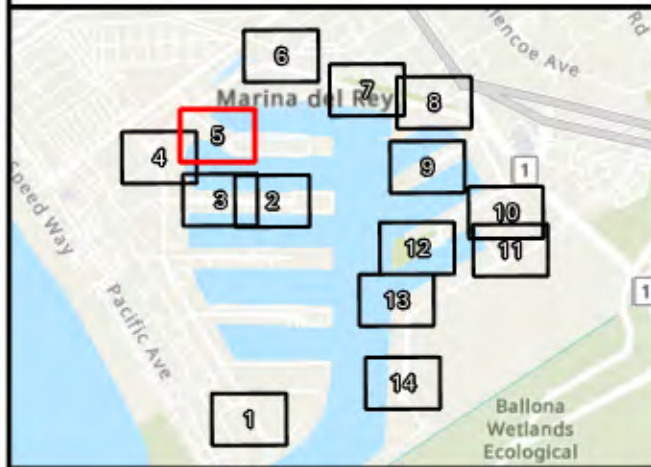
MDR Tree Inventory

### Level 2 Tree Survey Results

Safety Prune

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Proactive Removal





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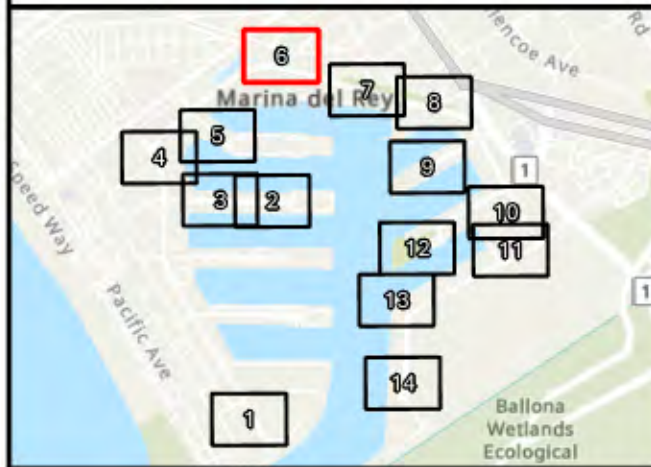
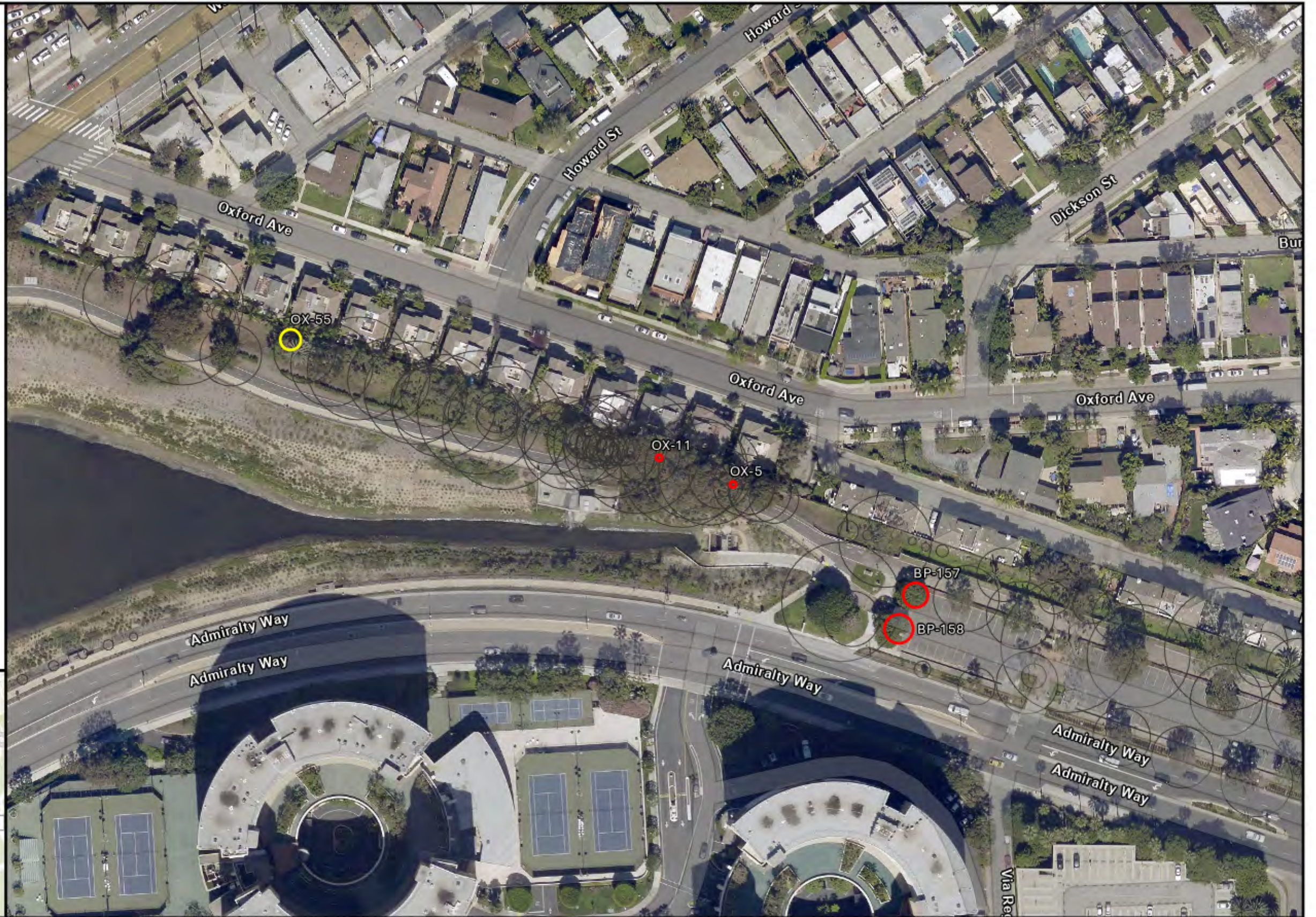
MDR Tree Inventory

### Level 2 Tree Survey Results

Safety Prune

Event Monitor

Proactive Removal





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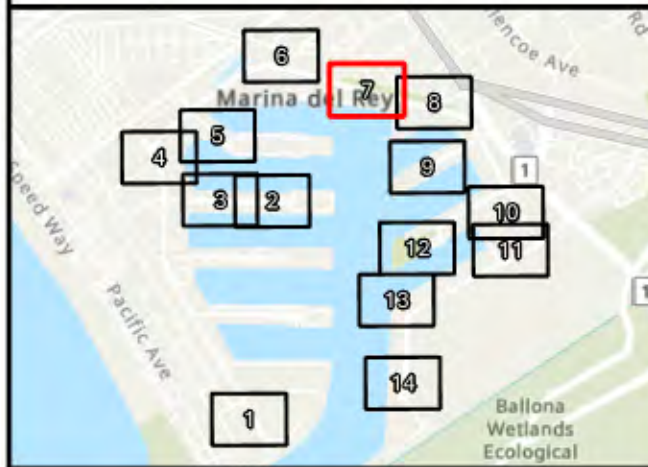
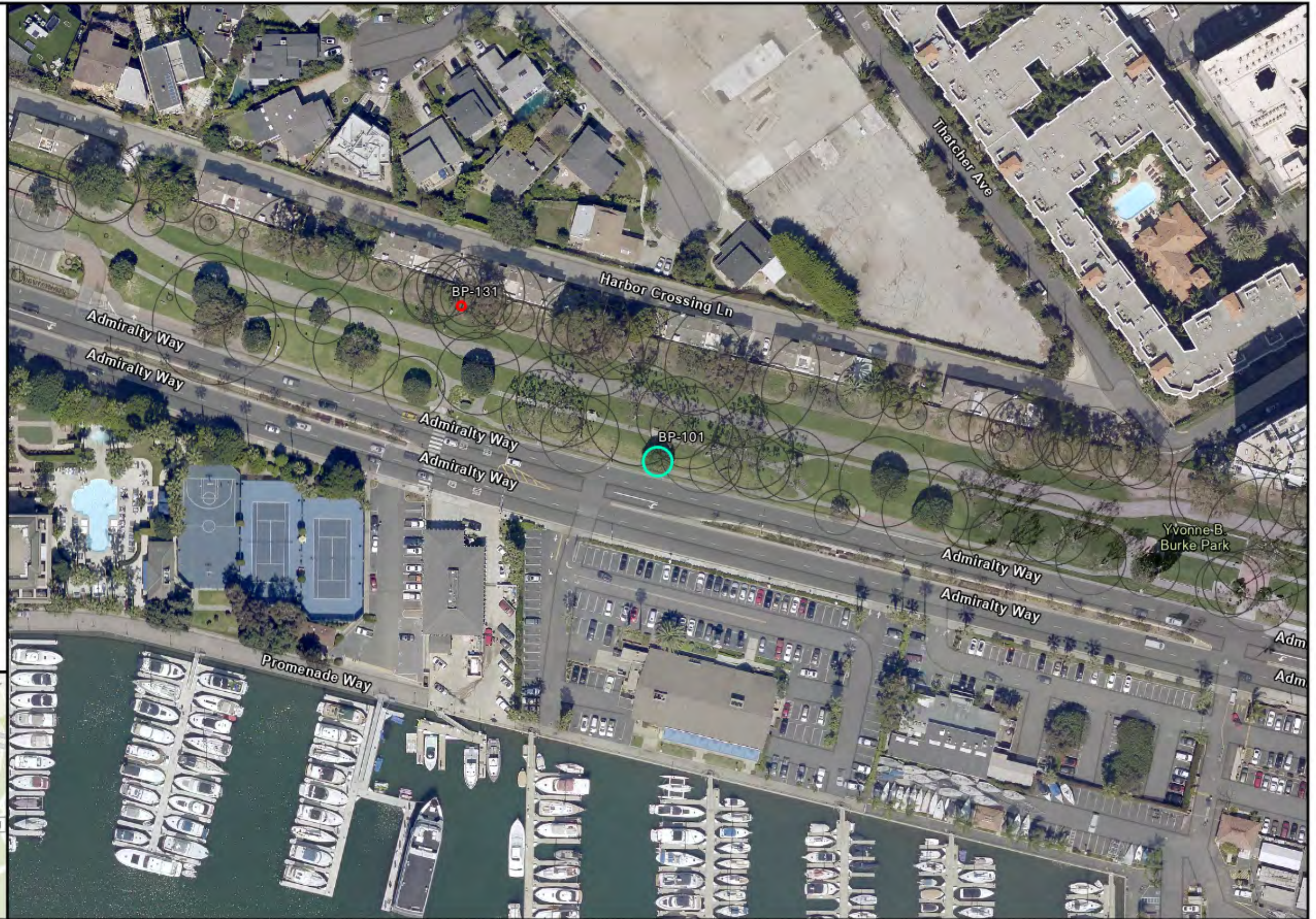
MDR Tree Inventory

### Level 2 Tree Survey Results

Safety Prune

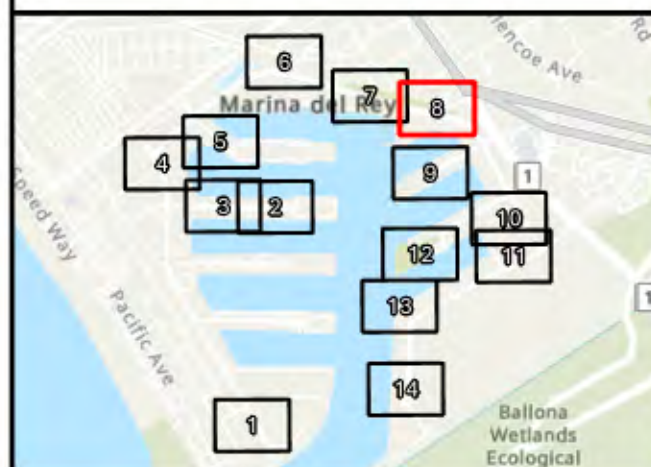
Event Monitor

Proactive Removal





☐ Proactive Removal



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1:1,200 1 inch equals 100 feet

## ANNUAL TREE RISK ASSESSMENT | MARINA DEL REY, CA



**LEGEND**

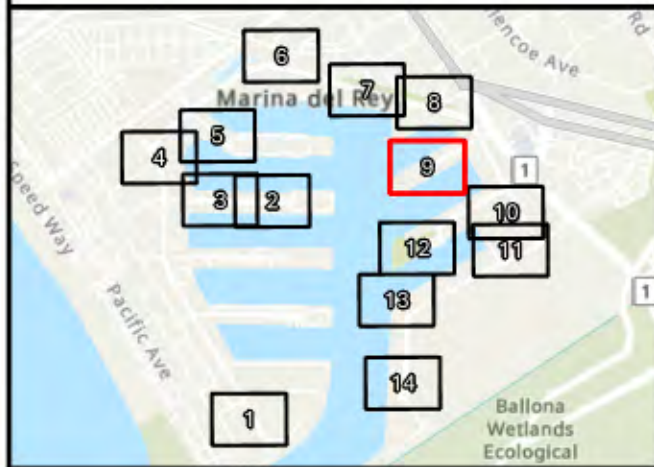
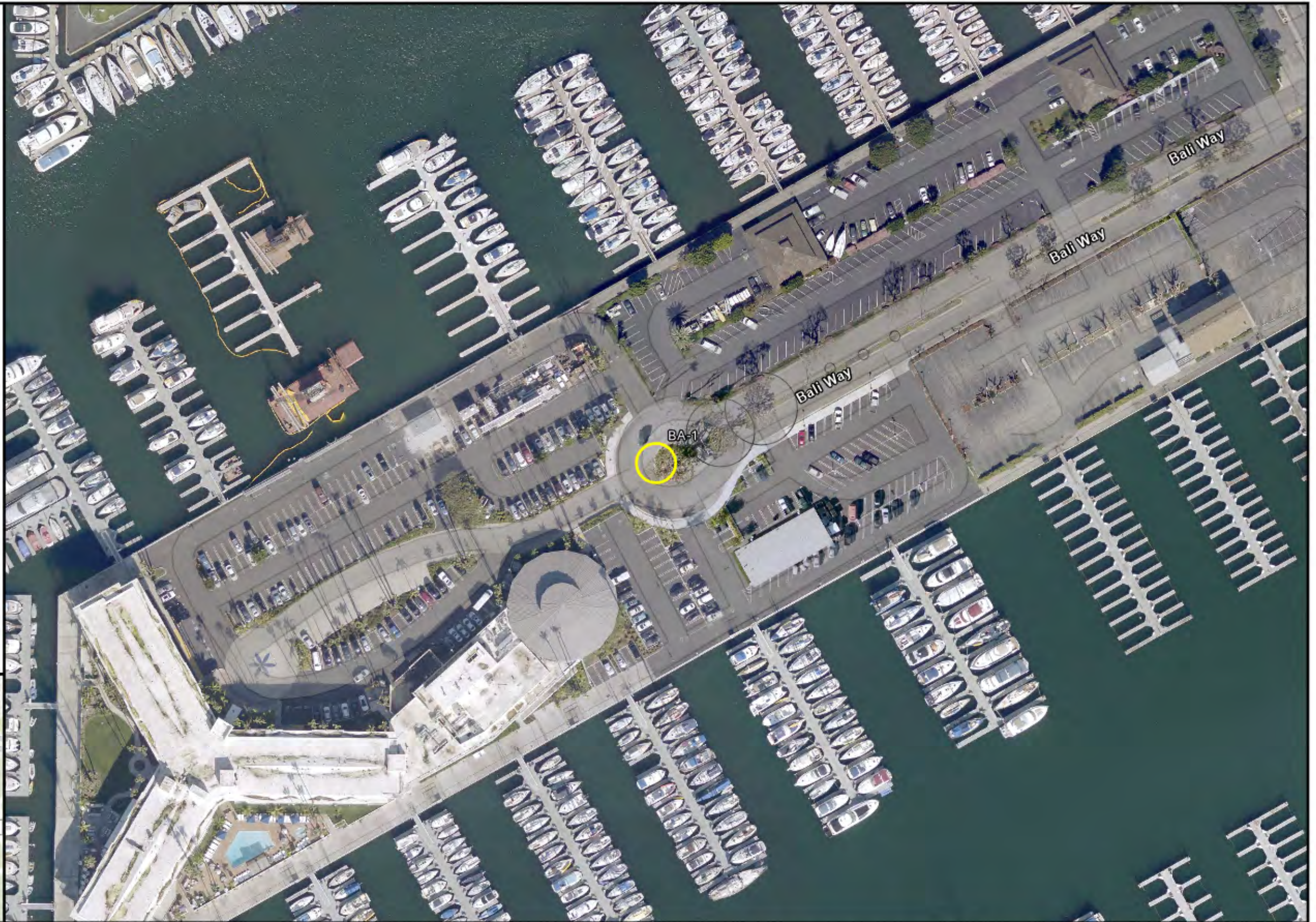
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**Level 2 Tree Survey Results**

Safety Prune

Event Monitor

Proactive Removal





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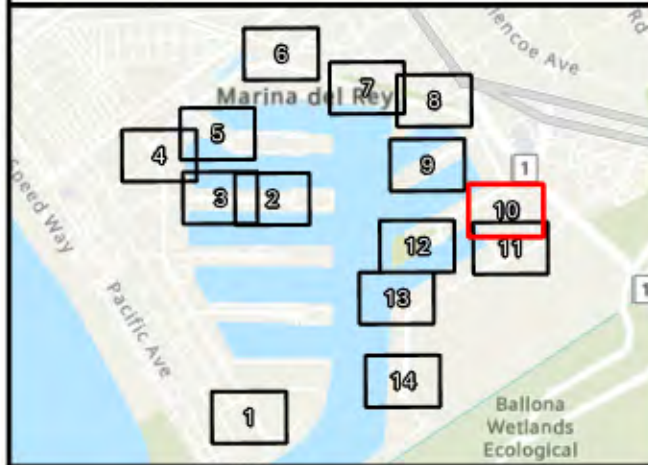
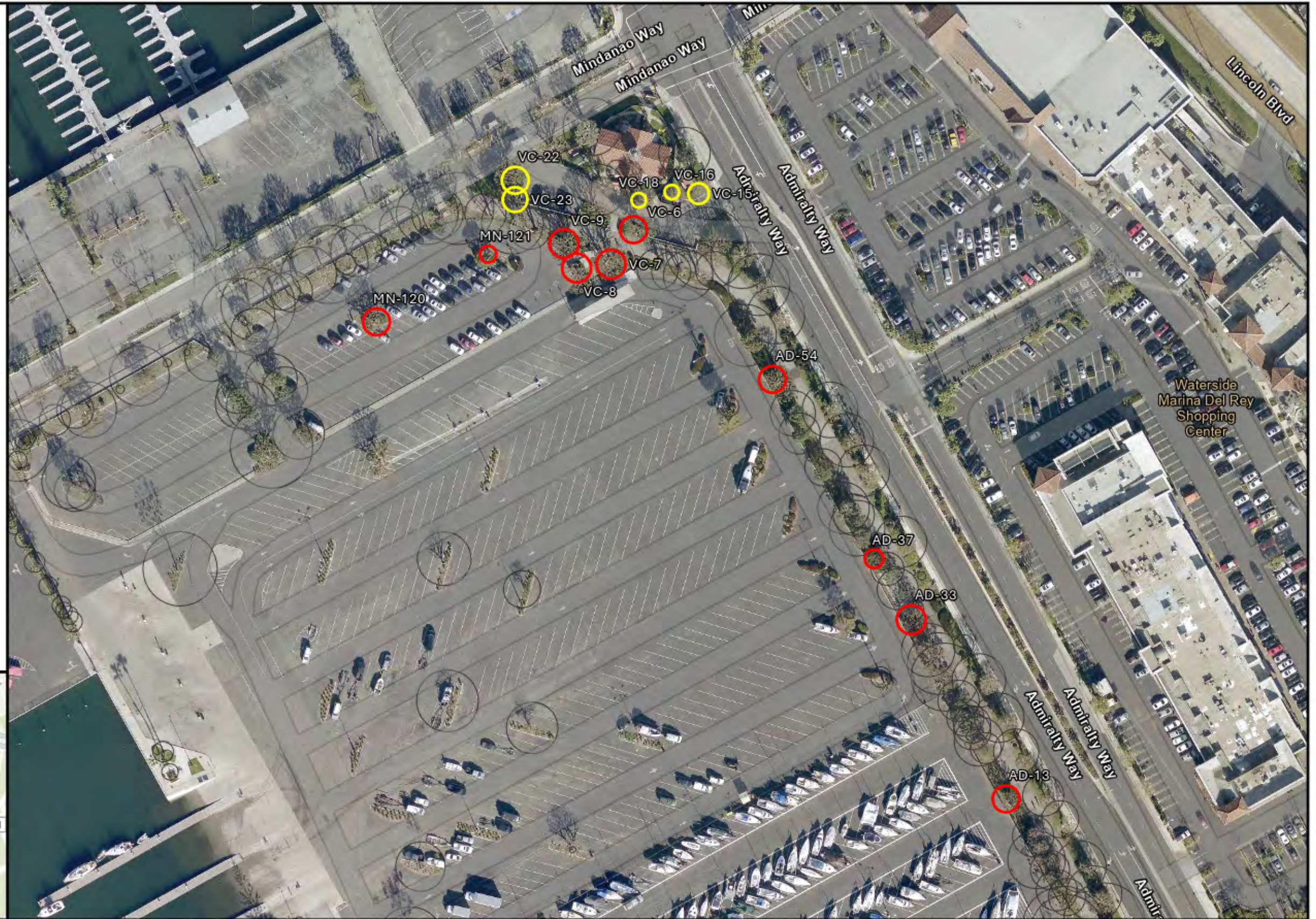
MDR Tree Inventory

## Level 2 Tree Survey Results

Safety Prune

Event Monitor

Proactive Removal





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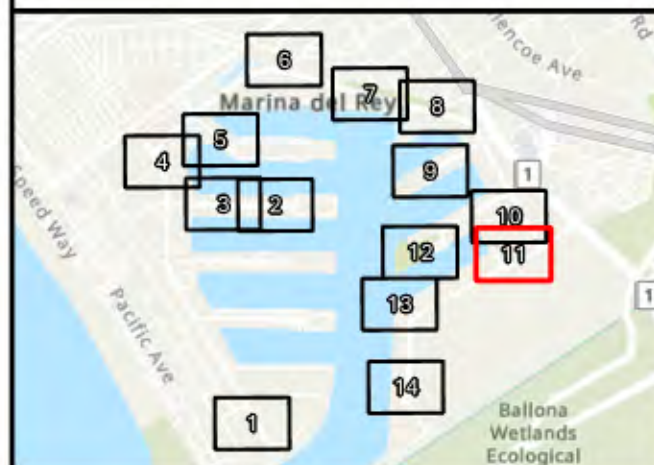
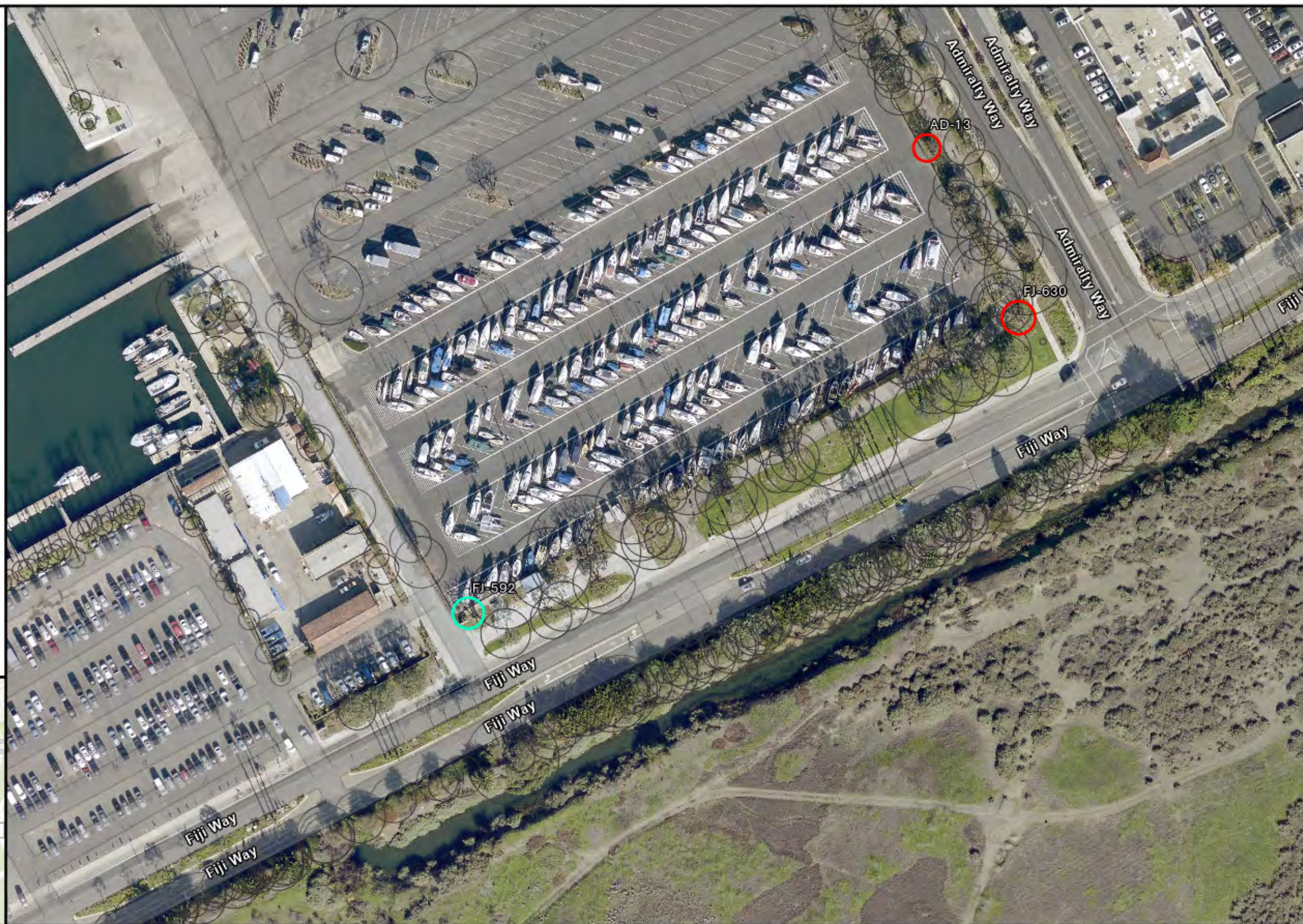
MDR Tree Inventory

### Level 2 Tree Survey Results

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Proactive Removal





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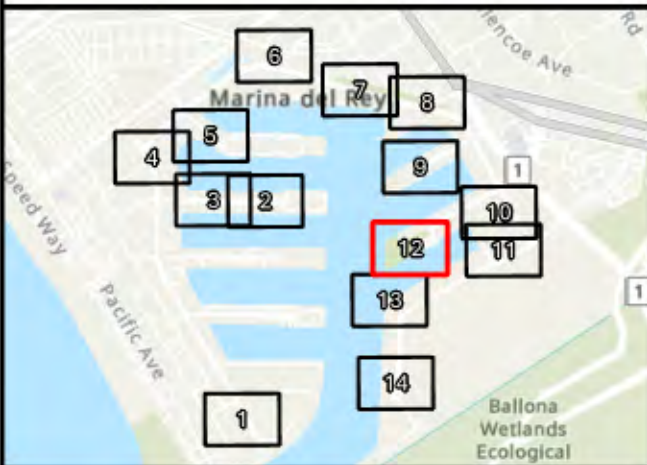
MDR Tree Inventory

### Level 2 Tree Survey Results

Safety Prune

Event Monitor

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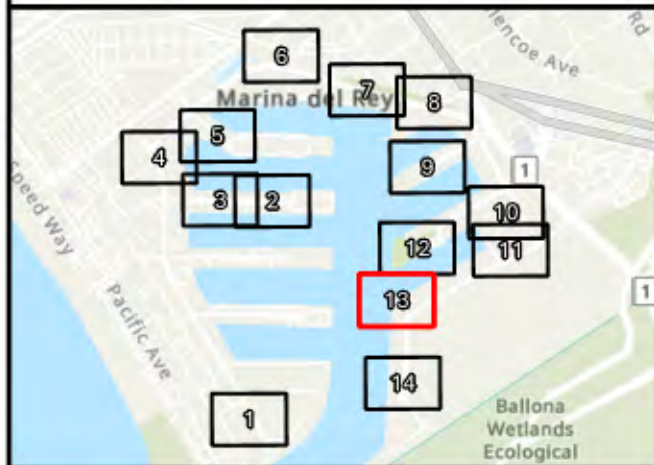
MDR Tree Inventory

**Level 2 Tree Survey Results**

Safety Prune

Event Monitor

Proactive Removal





**LEGEND**

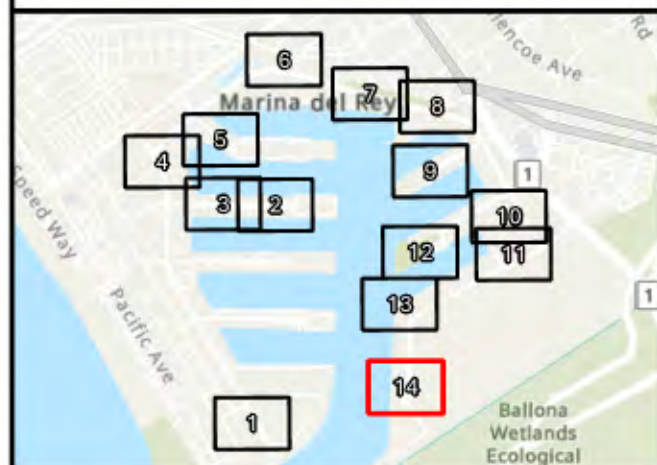
MDR Tree Inventory

**Level 2 Tree Survey Results**

Safety Prune

Event Monitor

Proactive Removal





## **APPENDIX B REPRESENTATIVE PHOTOGRAPHS**







**Photo 1.** Tree AD-13. Coral Tree (*Erythrina caffra*)

- Primary Defect: **Senescent, stress-driven prolonged dormancy.**
- Secondary Defect(s): **N/A**
- Condition(s) of Concern: **Effectively dead-standing in terms of prolonged dormancy may be contributing to a failure event**
- ISA TRAQ Overall Risk Rating: **High**
- Mitigation (Management) Options: **Proactive Removal and Suitable Replacement**
- ISA TRAQ Residual Risk Rating (Post Management Risk): **Low (with Replacement)**

Photo taken August 26, 2025



**Photo 2.** Tree AD-33. Coral Tree (*Erythrina caffra*)

- Primary Defect: **Senescent, stress-driven prolonged dormancy.**
- Secondary Defect(s): **N/A**
- Condition(s) of Concern: **Effectively dead-standing in terms of prolonged dormancy may be contributing to a failure event**
- ISA TRAQ Overall Risk Rating: **High**
- Mitigation (Management) Options: **Proactive Removal and Suitable Replacement**
- ISA TRAQ Residual Risk Rating (Post Management Risk): **Low (with Replacement)**

Photo taken August 26, 2025



**Photo 3.** Tree AD-37. Coral Tree (*Erythrina caffra*)

- Primary Defect: **Senescent, stress-driven prolonged dormancy.**
- Secondary Defect(s): **N/A**
- Condition(s) of Concern: **Effectively dead-standing in terms of prolonged dormancy may be contributing to a failure event**
- ISA TRAQ Overall Risk Rating: **High**
- Mitigation (Management) Options: **Proactive Removal and Suitable Replacement**
- ISA TRAQ Residual Risk Rating (Post Management Risk): **Low (with Replacement)**

Photo taken August 26, 2025



**Photo 4.** Tree AD-54. Coral Tree (*Erythrina caffra*)

- Primary Defect: **Senescent, stress-driven prolonged dormancy.**
- Secondary Defect(s): **N/A**
- Condition(s) of Concern: **Effectively dead-standing in terms of prolonged dormancy may be contributing to a failure event**
- ISA TRAQ Overall Risk Rating: **High**
- Mitigation (Management) Options: **Proactive Removal and Suitable Replacement**
- ISA TRAQ Residual Risk Rating (Post Management Risk): **Low (with Replacement)**

Photo taken August 26, 2025

**Photo 5.** Tree BA-1. Coral Tree (*Erythrina caffra*)

- Primary Defect: **Overmature/senescent**
- Secondary Defect(s):
  - **Multiple burls**
  - **Damaged woody surface roots**
  - **Stubs in crown with small points of decay**
- Condition(s) of Concern: **Potential presence of internal decay**
- ISA TRAQ Overall Risk Rating: **Moderate**
- Mitigation (Management) Options: **Monitor, reduce pruning cycle, perform Level 3 Assessment**
- ISA TRAQ Residual Risk Rating (Post Management Risk): **Moderate**

Photo taken August 28, 2025

**Photo 6.** Tree BP-25. Coral Tree (*Erythrina caffra*)

- Primary Defect: **Overmature/senescent**
- Secondary Defect(s):
  - **Multiple small rot pockets may be coalescing**
  - **Damaged woody surface roots**
  - **Visible Frass at Basal Flair**
- Condition(s) of Concern: **Potential presence of internal decay**
- ISA TRAQ Overall Risk Rating: **Moderate**
- Mitigation (Management) Options: **Monitor, reduce pruning cycle, perform Level 3 Assessment**
- ISA TRAQ Residual Risk Rating (Post Management Risk): **Moderate**

Photo taken August 28, 2025





**Photo 7.** Tree BP-101. Rustyleaf Fig (*Ficus rubiginosa*)

- Primary Defect: **N/A**
- Secondary Defect(s): **N/A**
- Condition(s) of Concern: **Lower lateral branches (Limb Drop)**
- ISA TRAQ Overall Risk Rating: **Low**
- Mitigation (Management) Options: **Remove 4-5 Lower horizontal limbs overhanging lawn and street and raise skirt**
- ISA TRAQ Residual Risk Rating (Post Management Risk): **Low**

Photo taken August 26, 2025



**Photo 8.** Tree BP-131. Primrose Tree (*Lagunaria patersonii*)

- Primary Defect: **Cavity at base**
- Secondary Defect(s):
  - **Suppressed**
  - **Asymmetrical crown**
  - **Ant colony**
- Condition(s) of Concern: **Suppression/asymmetrical crown in concert with basal cavity**
- ISA TRAQ Overall Risk Rating: **Moderate**
- Mitigation (Management) Options: **Proactive Removal**
- ISA TRAQ Residual Risk Rating (Post Management Risk): **Low**

Photo taken August 28, 2025



**Photo 9.** Tree BP-157. Coral Tree (*Erythrina caffra*)

- Primary Defect: **Senescent, stress-driven prolonged dormancy.**
- Secondary Defect(s): **N/A**
- Condition(s) of Concern: **Effectively dead-standing in terms of prolonged dormancy may be contributing to a failure event**
- ISA TRAQ Overall Risk Rating: **High**
- Mitigation (Management) Options: **Proactive Removal and Suitable Replacement**
- ISA TRAQ Residual Risk Rating (Post Management Risk): **Low (with Replacement)**

Photo taken August 28, 2025





**Photo 10.** Tree BP-158. Coral Tree (*Erythrina caffra*)

- Primary Defect: **Senescent, stress-driven prolonged dormancy.**
- Secondary Defect(s): **N/A**
- Condition(s) of Concern: **Effectively dead-standing in terms of prolonged dormancy may be contributing to a failure event**
- ISA TRAQ Overall Risk Rating: **High**
- Mitigation (Management) Options: **Proactive Removal and Suitable Replacement**
- ISA TRAQ Residual Risk Rating (Post Management Risk): **Low (with Replacement)**

Photo taken August 28, 2025



**Photo 11.** Tree CP-26. Bushy Yate (*Eucalyptus lehmannii*)

- Primary Defect: **Fused Double Scaffolding Limb in South Crown**
- Secondary Defect(s): **Heavy end-weight, epicorms, burls**
- Condition(s) of Concern: **Limb Drop**
- ISA TRAQ Overall Risk Rating: **Moderate**
- Mitigation (Management) Options: **Remove western limb**
- ISA TRAQ Residual Risk Rating (Post Management Risk): **Low**

Photo taken August 27, 2025



**Photo 12.** Tree CP-54. Rustyleaf Fig (*Ficus rubiginosa*)

- Primary Defect: **Rip in NW Co-Dominant Stem**
- Secondary Defect(s): **Overpruned with heavy end-weight**
- Condition(s) of Concern: **Co-dominant stem failure**
- ISA TRAQ Overall Risk Rating: **Moderate**
- Mitigation (Management) Options: **Monitor, reduce pruning by removing smaller lateral limbs**
- ISA TRAQ Residual Risk Rating (Post Management Risk): **Low (with Replacement)**

Photo taken August 27, 2025





**Photo 13.** Tree CP-55. Bushy Yate (*Eucalyptus lehmannii*)

- Primary Defect: **Crown die-back**
- Secondary Defect(s): **Burl on east co-dominant stem, epicormic shoots/stress**
- Condition(s) of Concern: **Co-dominant stem failure**
- ISA TRAQ Overall Risk Rating: **Low**
- Mitigation (Management) Options: **Monitor and reduce pruning cycle**
- ISA TRAQ Residual Risk Rating (Post Management Risk): **Low**

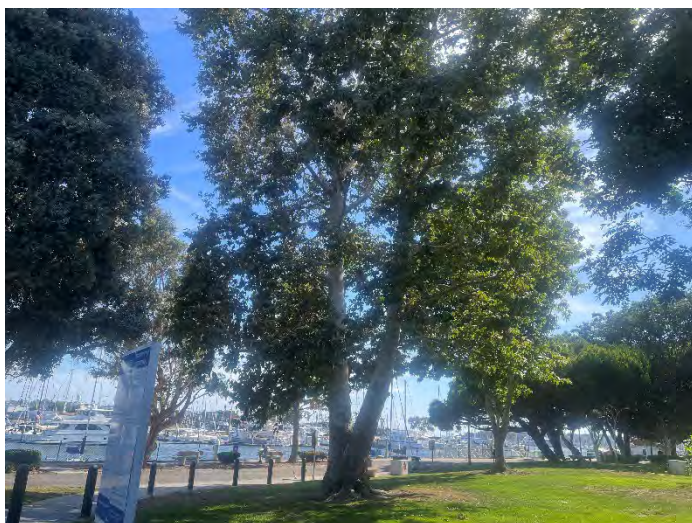
Photo taken August 27, 2025



**Photo 14.** Tree CP-85. Paperbark (*Melaleuca quinquenervia*)

- Primary Defect: **Crown die-back**
- Secondary Defect(s): **Suppressed, small cavity on N co-dominant stem, top heavy, stressed, asymmetrical**
- Condition(s) of Concern: **Co-dominant stem failure**
- ISA TRAQ Overall Risk Rating: **Moderate**
- Mitigation (Management) Options: **Event Monitor, reduce pruning cycle**
- ISA TRAQ Residual Risk Rating (Post Management Risk): **Moderate**

Photo taken August 27, 2025



**Photo 15.** Tree CP-135. Western Sycamore (*Platanus racemosa*)

- Primary Defect: **N/A**
- Secondary Defect(s): **N/A**
- Condition(s) of Concern: **Co-Dominant Stem Failure or complete tree failure**
- ISA TRAQ Overall Risk Rating: **Moderate**
- Mitigation (Management) Options: **Monitor**
- ISA TRAQ Residual Risk Rating (Post Management Risk): **Moderate**

Photo taken August 27, 2025





**Photo 16.** Tree CP-213. Paperbark (*Melaleuca quinquenervia*)

- Primary Defect: **Scaffolding Limb Attachment**
- Secondary Defect(s): **severed structural roots and overpruned, suppressed, heavy end-weight**
- Condition(s) of Concern: **Co-dominant stem or limb failure**
- ISA TRAQ Overall Risk Rating: **Moderate**
- Mitigation (Management) Options: **Monitor and reduce pruning cycle**
- ISA TRAQ Residual Risk Rating (Post Management Risk): **Moderate**

Photo taken August 27, 2025



**Photo 17.** Tree CP-218. Red Ironbark (*Eucalyptus sideroxylon*)

- Primary Defect: **Uncorrected lean**
- Secondary Defect(s): **Tree stripped of limbs, stubs, highly stresses**
- Condition(s) of Concern: **Complete tree failure**
- ISA TRAQ Overall Risk Rating: **Moderate**
- Mitigation (Management) Options: **Proactive Removal and Suitable Replacement**
- ISA TRAQ Residual Risk Rating (Post Management Risk): **Low (with Replacement)**

Photo taken August 28, 2025



**Photo 18.** Tree CP-222. Red Ironbark (*Eucalyptus sideroxylon*)

- Primary Defect: **Acute lean**
- Secondary Defect(s): **Severed structural roots, stress, heavy end-weight, crown flagging, top heavy**
- Condition(s) of Concern: **Complete tree failure**
- ISA TRAQ Overall Risk Rating: **Moderate**
- Mitigation (Management) Options: **Event Monitor, reduce pruning cycle**
- ISA TRAQ Residual Risk Rating (Post Management Risk): **Moderate**

Photo taken August 28, 2025





**Photo 19.** Tree FJ-08. Paperbark (*Melaleuca quinquenervia*)

- Primary Defect: **Severed structural roots**
- Secondary Defect(s): **Sooty mold**
- Condition(s) of Concern: **Complete tree failure if sidewalk is repaired**
- ISA TRAQ Overall Risk Rating: **High**
- Mitigation (Management) Options: **Proactive Removal and Suitable Replacement**
- ISA TRAQ Residual Risk Rating (Post Management Risk): **Low (with Replacement)**

Photo from Google Streetview



**Photo 20.** Tree FJ-09. Paperbark (*Melaleuca quinquenervia*)

- Primary Defect: **Eventual sidewalk uplift and tripping hazards**
- Secondary Defect(s): **N/A**
- Condition(s) of Concern: **Complete tree failure if sidewalk is repaired**
- ISA TRAQ Overall Risk Rating: **Moderate**
- Mitigation (Management) Options: **Proactive Removal and Suitable Replacement**
- ISA TRAQ Residual Risk Rating (Post Management Risk): **Low (with Replacement)**

Photo from Google Streetview



**Photo 21.** Tree FJ-10. Paperbark (*Melaleuca quinquenervia*)

- Primary Defect: **Severed structural roots**
- Secondary Defect(s): **Sooty mold**
- Condition(s) of Concern: **Complete tree failure if sidewalk is repaired**
- ISA TRAQ Overall Risk Rating: **High**
- Mitigation (Management) Options: **Proactive Removal and Suitable Replacement**
- ISA TRAQ Residual Risk Rating (Post Management Risk): **Low (with Replacement)**

Photo taken August 26, 2025





**Photo 22.** Tree FJ-226. Lemon-scented Gum (*Eucalyptus citriodora*)

- Primary Defect: **Heavy end-weight on lower western limb**
- Secondary Defect(s): **Stub on lower SW portion of crown**
- Condition(s) of Concern: **Limb failure**
- ISA TRAQ Overall Risk Rating: **Moderate**
- Mitigation (Management) Options: Remove lower western limb overhanging parking lot
- ISA TRAQ Residual Risk Rating (Post Management Risk): **Low (with Replacement)**

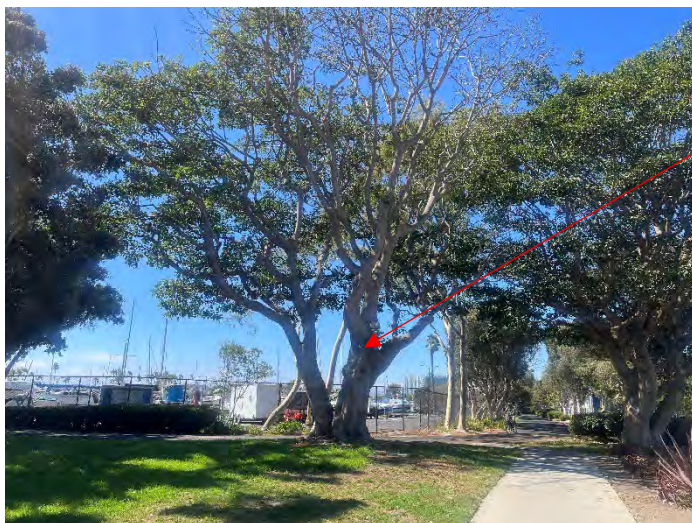
Photo taken August 26, 2025



**Photo 23.** Tree FJ-592. Coral Tree (*Erythrina caffra*)

- Primary Defect: **Lower limb with nascent decay pocket**
- Secondary Defect(s):
  - **Senescent**
  - **Root Compaction**
- Condition(s) of Concern: **Limb failure**
- ISA TRAQ Overall Risk Rating: **Moderate**
- Mitigation (Management) Options: **Remove lower western limb with small pocket of decay overhanging driveway and plaque**
- ISA TRAQ Residual Risk Rating (Post Management Risk): **Moderate**

Photo taken August 26, 2025



**Photo 24.** Tree FJ-630. Coral Tree (*Erythrina caffra*)

- Primary Defect: **Nearly dead standing eastern co-dominant**
- Secondary Defect(s): **Calving co-dominant stems**
- Condition of Concern: **Co-dominant or complete tree failure**
- ISA TRAQ Overall Risk Rating: **High**
- Mitigation (Management) Options: **Proactive Removal and Suitable Replacement**
- ISA TRAQ Residual Risk Rating (Post Management Risk): **Low (with Replacement)**

Photo taken August 26, 2025





**Photo 25.** Tree MB-90. Black Acacia (*Acacia melanoxylon*)

- Primary Defect: **Acute lean**
- Secondary Defect(s): **Severed structural roots, top heavy, poor structure, crown flagging, heavy end-weight**
- Condition of Concern: **Complete tree failure**
- ISA TRAQ Overall Risk Rating: **High**
- Mitigation (Management) Options: **Proactive Removal and Suitable Replacement**
- ISA TRAQ Residual Risk Rating (Post Management Risk): **Low (with Replacement)**

Photo taken August 29, 2025



**Photo 26.** Tree MN-120. Coral Tree (*Erythrina caffra*)

- Primary Defect: **Senescent, stress-driven prolonged dormancy.**
- Secondary Defect(s): **N/A**
- Condition(s) of Concern: **Effectively dead-standing in terms of prolonged dormancy may be contributing to a failure event**
- ISA TRAQ Overall Risk Rating: **High**
- Mitigation (Management) Options: **Proactive Removal and Suitable Replacement**
- ISA TRAQ Residual Risk Rating (Post Management Risk): **Low (with Replacement)**

Photo taken August 27, 2025



**Photo 27.** Tree MN-121. New Zealand Christmas Tree (*Metrosideros excelsa*)

- Primary Defect: **Nearly dead standing**
- Secondary Defect(s): **Tree Stress that may be insurmountable to recover from**
- Condition of Concern: **Complete tree failure**
- ISA TRAQ Overall Risk Rating: **High**
- Mitigation (Management) Options: **Proactive Removal and Suitable Replacement**
- ISA TRAQ Residual Risk Rating (Post Management Risk): **Low (with Replacement)**

Photo taken August 27, 2025



**Photo 28.** Tree OX-5. Blue gum (*Eucalyptus globulus*)

- Primary Defect: **Uncorrected lean**
- Secondary Defect(s): **Tree stripped of limbs, stubs, highly stressed**
- Condition(s) of Concern: **Complete tree failure**
- ISA TRAQ Overall Risk Rating: **Moderate**
- Mitigation (Management) Options: **Proactive Removal and Suitable Replacement**
- ISA TRAQ Residual Risk Rating (Post Management Risk): **Low (with Replacement)**

Photo taken August 28, 2025

**Photo 29.** Tree OX-11. Blue gum (*Eucalyptus globulus*)

- Primary Defect: **Uncorrected lean**
- Secondary Defect(s): **Tree stripped of limbs, stubs, flush cuts, highly stressed**
- Condition(s) of Concern: **Complete tree failure**
- ISA TRAQ Overall Risk Rating: **Moderate**
- Mitigation (Management) Options: **Proactive Removal and Suitable Replacement**
- ISA TRAQ Residual Risk Rating (Post Management Risk): **Low (with Replacement)**

Photo taken August 28, 2025

**Photo 30.** Tree OX-55. California Pepper Tree (*Schinus molle*)

- Primary Defect: **Limb failure**
- Secondary Defect(s): **Tree stress, heavy end weight, asymmetrical crown**
- Condition(s) of Concern: **Limb failure**
- ISA TRAQ Overall Risk Rating: **Low**
- Mitigation (Management) Options: **Remove western limb or no action as tree has low target value**
- ISA TRAQ Residual Risk Rating (Post Management Risk): **Low**

Photo taken August 28, 2025





**Photo 31.** Tree PL-1. Coral Tree (*Erythrina caffra*)

- Primary Defect: **Acute decline nearly dead standing**
- Secondary Defect(s): **Tree Stress that may be insurmountable to recover from, heavy end weight**
- Condition of Concern: **Co-dominant or complete tree failure, limb and branch failure**
- ISA TRAQ Overall Risk Rating: **High**
- Mitigation (Management) Options: **Proactive Removal and Suitable Replacement**
- ISA TRAQ Residual Risk Rating (Post Management Risk): **Low (with Replacement)**

Photo taken August 29, 2025



**Photo 32.** Tree PL-16. Coral Tree (*Erythrina caffra*)

- Primary Defect: **Senescent decline**
- Secondary Defect(s): **Tree Stress, heavy end weight**
- Condition of Concern: **Co-dominant stem, limb and branch failure**
- ISA TRAQ Overall Risk Rating: **Moderate**
- Mitigation (Management) Options: **Monitor, reduce pruning cycle**
- ISA TRAQ Residual Risk Rating (Post Management Risk): **Moderate**

Photo taken August 29, 2025



**Photo 33.** Tree PL-32. Paperbark (*Melaleuca quinquenervia*)

- Primary Defect: **Acute decline**
- Secondary Defect(s): **Severed structural roots**
- Condition(s) of Concern: **Co-dominant stem failure, limb failure**
- ISA TRAQ Overall Risk Rating: **High**
- Mitigation (Management) Options: **Proactive Removal and Suitable Replacement**
- ISA TRAQ Residual Risk Rating (Post Management Risk): **Low (with Replacement)**

Photo taken August 29, 2025





**Photo 34.** Tree PN-5. Paperbark (*Melaleuca quinquenervia*)

- Primary Defect: **Severed structural roots**
- Secondary Defect(s): **Tree stress**
- Condition(s) of Concern: **Limb or complete tree failure**
- ISA TRAQ Overall Risk Rating: **Moderate**
- Mitigation (Management) Options: **Monitor or consider proactive removal and replacement**
- ISA TRAQ Residual Risk Rating (Post Management Risk): **Moderate (low if removed and replaced)**

Photo taken August 29, 2025



**Photo 35.** Tree PN-8. Paperbark (*Melaleuca quinquenervia*)

- Primary Defect: **Severed structural roots**
- Secondary Defect(s): **Tree stress**
- Condition(s) of Concern: **Limb or complete tree failure**
- ISA TRAQ Overall Risk Rating: **Moderate**
- Mitigation (Management) Options: **Monitor or consider proactive removal and replacement**
- ISA TRAQ Residual Risk Rating (Post Management Risk): **Moderate (low if removed and replaced)**

Photo taken August 29, 2025



**Photo 36.** PN-27. Olive (*Olea europaea*)

- Primary Defect: **Basal cavity**
- Secondary Defect(s): **sloughing bark, decay pockets throughout tree, bee hive in basal cavity**
- Condition(s) of Concern: **Co-dominant or complete tree failure**
- ISA TRAQ Overall Risk Rating: **High**
- Mitigation (Management) Options: **Proactive Removal and Suitable Replacement**
- ISA TRAQ Residual Risk Rating (Post Management Risk): **Low (with Replacement)**

Photo taken August 29, 2025





**Photo 37.** Tree PN-71. Olive (*Olea europaea*)

- Primary Defect: **Basal cavity**
- Secondary Defect(s): **sloughing bark, decay pockets throughout tree**
- Condition(s) of Concern: **Co-dominant or complete tree failure**
- ISA TRAQ Overall Risk Rating: **High**
- Mitigation (Management) Options: **Proactive Removal and Suitable Replacement**
- ISA TRAQ Residual Risk Rating (Post Management Risk): **Low (with Replacement)**

Photo taken August 29, 2025



**Photo 38.** Tree VC-6. Coral Tree (*Erythrina caffra*)

- Primary Defect: **Senescent, stress-driven prolonged dormancy.**
- Secondary Defect(s): **N/A**
- Condition(s) of Concern: **Effectively dead-standing in terms of prolonged dormancy may be contributing to a failure event**
- ISA TRAQ Overall Risk Rating: **High**
- Mitigation (Management) Options: **Proactive Removal and Suitable Replacement**
- ISA TRAQ Residual Risk Rating (Post Management Risk): **Low (with Replacement)**

Photo taken August 26, 2025



**Photo 39.** Tree VC-7. Coral Tree (*Erythrina caffra*)

- Primary Defect: **Senescent, stress-driven prolonged dormancy.**
- Secondary Defect(s): **N/A**
- Condition(s) of Concern: **Effectively dead-standing in terms of prolonged dormancy may be contributing to a failure event**
- ISA TRAQ Overall Risk Rating: **High**
- Mitigation (Management) Options: **Proactive Removal and Suitable Replacement**
- ISA TRAQ Residual Risk Rating (Post Management Risk): **Low (with Replacement)**

Photo taken August 26, 2025





**Photo 40.** Tree VC-8. Coral Tree (*Erythrina caffra*)

- Primary Defect: **Senescent, stress-driven prolonged dormancy.**
- Secondary Defect(s): **N/A**
- Condition(s) of Concern: **Effectively dead-standing in terms of prolonged dormancy may be contributing to a failure event**
- ISA TRAQ Overall Risk Rating: **High**
- Mitigation (Management) Options: **Proactive Removal and Suitable Replacement**
- ISA TRAQ Residual Risk Rating (Post Management Risk): **Low (with Replacement)**

Photo taken August 26, 2025



**Photo 41.** VC-9. Coral Tree (*Erythrina caffra*)

- Primary Defect: **Senescent, stress-driven prolonged dormancy.**
- Secondary Defect(s): **N/A**
- Condition(s) of Concern: **Effectively dead-standing in terms of prolonged dormancy may be contributing to a failure event**
- ISA TRAQ Overall Risk Rating: **High**
- Mitigation (Management) Options: **Proactive Removal and Suitable Replacement**
- ISA TRAQ Residual Risk Rating (Post Management Risk): **Low (with Replacement)**

Photo taken August 26, 2025



**Photo 42.** Tree VC-15. Paperbark (*Melaleuca quinquenervia*)

- Primary Defect: **Saprophytic mushroom**
- Secondary Defect(s): **Damaged woody surface roots**
- Condition(s) of Concern: **Complete tree failure**
- ISA TRAQ Overall Risk Rating: **Moderate**
- Mitigation (Management) Options: **Monitor or consider proactive removal and replacement**
- ISA TRAQ Residual Risk Rating (Post Management Risk): **Moderate (low if removed and replaced)**

Photo taken August 27, 2025





**Photo 43.** Tree VC-16. Paperbark (*Melaleuca quinquenervia*)

- Primary Defect: **Saprophytic mushroom**
- Secondary Defect(s): **Damaged woody surface roots**
- Condition(s) of Concern: **Complete tree failure**
- ISA TRAQ Overall Risk Rating: **Moderate**
- Mitigation (Management) Options: **Monitor or consider proactive removal and replacement**
- ISA TRAQ Residual Risk Rating (Post Management Risk): **Moderate (low if removed and replaced)**

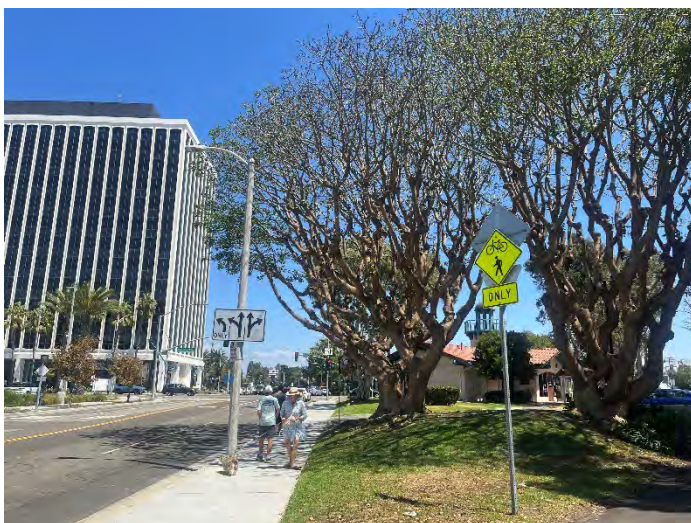
Photo taken August 27, 2025



**Photo 44.** Tree VC-18. Paperbark (*Melaleuca quinquenervia*)

- Primary Defect: **Saprophytic mushroom**
- Secondary Defect(s): **Damaged woody surface roots**
- Condition(s) of Concern: **Complete tree failure**
- ISA TRAQ Overall Risk Rating: **Moderate**
- Mitigation (Management) Options: **Monitor or consider proactive removal and replacement**
- ISA TRAQ Residual Risk Rating (Post Management Risk): **Moderate (low if removed and replaced)**

Photo taken August 27, 2025



**Photo 45.** Tree VC-22. Coral Tree (*Erythrina caffra*)

- Primary Defect: **Senescent decline**
- Secondary Defect(s): **Tree Stress, heavy end weight**
- Condition of Concern: **Co-dominant stem, limb and branch failure**
- ISA TRAQ Overall Risk Rating: **Moderate**
- Mitigation (Management) Options: **Monitor, reduce pruning cycle. consider removal and replacement**
- ISA TRAQ Residual Risk Rating (Post Management Risk): **Moderate (low if removed and replaced)**

Photo taken August 27, 2025





**Photo 46.** Tree VC-23. Coral Tree (*Erythrina caffra*)

- Primary Defect: **Senescent decline**
- Secondary Defect(s): **Tree Stress, heavy end weight**
- Condition of Concern: **Co-dominant stem, limb and branch failure**
- ISA TRAQ Overall Risk Rating: **Moderate**
- Mitigation (Management) Options: **Monitor, reduce pruning cycle, consider removal and replacement**
- ISA TRAQ Residual Risk Rating (Post Management Risk): **Moderate (low if removed and replaced)**

Photo taken August 27, 2025



**Photo 47.** Tree VM-134. Paperbark (*Melaleuca quinquenervia*)

- Primary Defect: **Severed structural roots**
- Secondary Defect(s): **Overmature/senescent, small cavity, sooty mold**
- Condition(s) of Concern: Complete tree failure (in the context of sidewalk repair, **co-dominant stem or limb failure**)
- ISA TRAQ Overall Risk Rating: **Moderate**
- Mitigation (Management) Options: **Proactive Removal and Suitable Replacement**
- ISA TRAQ Residual Risk Rating (Post Management Risk): **Low (with Replacement)**

Photo taken August 29, 2025



## **APPENDIX C RESULTS MATRIX**





County of Los Angeles Department of Beaches and Harbors | Los Angeles County, California



| Basic Tree Data and Metrics |                      |                   |                        | Basic Tree Health |             |                   |                | Tree Risk Assessment |                                   |                           |            |                                           |                                                                                        |                                   |                                                                       |                                         |                                              | Notes                                                  |                               |                                 |                                                        |                             |                                            |                                                                                                                                                  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| Tree ID                     | Species (Scientific) | Species (Common)  | Location               | DDB (in)          | Height (ft) | Crown Radius (ft) | General Health | General Vigor        | Observable Pests and/or Pathogens | Leaf and Branch Structure | Root Crown | Primary Defect(s) Observed                | Secondary Defect(s) Observed                                                           | Sounding/Vibration Result         | Probing Result                                                        | Condition(s) of Concern                 | Targets                                      | ISA TreeQ Classification (Defect and Impact Potential) | ISA TreeQ Overall Tree Rating | Mitigation (Management) Options | ISA TreeQ Remedial Risk Rating (Mitigation/Prevention) | Subsidiary for Preservation | Management Recommendation                  | Special Considerations                                                                                                                           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| PA02                        | Eucalyptus calura    | Coral Tree        | 22.977014, -116.455174 | 30/32             | 42          | 14                | 2              | 2                    | N/A                               | 0                         | 0          | Nearly clear standing without observation | Control on dominant stems                                                              | Established (per internal survey) | Probe shows approximately 0.5 inches of resistance at 12 inches depth | Co-dominant stems below and above crown | 1. Bleedback<br>2. Bleedback<br>3. Bleedback | Low                                                    | High                          | Proactive Removal               | Low (with replacement)                                 | N/A                         | Proactive removal and suitable replacement | Tree is small age related and under observation. Subject to removal per city policy. Removal of specimen portion of tree is not recommended.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| PA03                        | Ardisia coccinea     | Black Honeysuckle | 22.981035, -116.455443 | 18                | 25          | 6                 | 2              | 2                    | N/A                               | 2                         | 2          | Acute stem                                | 1. Stem and crown rot<br>2. Stem and crown rot<br>3. Crown rotting<br>4. Crown rotting | N/A                               | N/A                                                                   | Complete Tree Failure                   | 1. Probing/Low<br>2. Probing/Low             | Low                                                    | High                          | Proactive Removal               | Low (with replacement)                                 | N/A                         | Proactive removal and suitable replacement | Multiple fungal cuts and past pruning have resulted in poor condition. Tree is small and under observation. Removal of specimen portion of tree is not recommended.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| PA09                        | Eucalyptus calura    | Coral Tree        | 22.979053, -116.457163 | 18/19/20          | 25          | 13                | 2              | 0                    | N/A                               | N/A                       | N/A        | Severe stem disease, prostrate/dormant    | Tree shows that may be incurable due to insect damage                                  | N/A                               | N/A                                                                   | Complete Tree Failure                   | 1. Bleedback<br>2. Bleedback<br>3. Bleedback | Low                                                    | High                          | Proactive Removal               | Low (with replacement)                                 | N/A                         | Proactive removal and suitable replacement | The tree shows that may be incurable due to insect damage. 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