

Livermore Area Recreation and Park District

Staff Report

TO: Chair Furst and Facilities Committee

FROM: Mathew Fuzie, General Manager

PREPARED BY: Fred Haldeman, Acting Parks and Facilities Manager

DATE: June 4, 2020

SUBJECT: Tree Failure, Robert Livermore Park

INTRODUCTION: The purpose of this report is to identify and weigh any potential liability or hazard due to tree failures in Robert Livermore Park and to make recommendations for future action.

BACKGROUND: On May 17th at approximately 2:15 pm, LARPD Rangers Doug Sousa and Dan Thomas responded to a police radio call regarding an incident at Robert Livermore Park. Upon arrival they noted a woman being treated by first responders (Falc-Alameda County) for apparently minor injuries, reportedly sustained after being struck by a falling tree. Police were also on the scene and they were interviewing the woman (Ashley Greene). Rangers Sousa and Thomas collected Ms. Greene's information from LPD (Attachment A) and secured the site. LARPD Parks staff Brian Hall arrived on the scene and took several pictures of the fallen tree and the surrounding area. Ms. Greene declined additional aid, was released by Falck, and eventually transported home by a family member.

FOLLOW UP INVESTIGATION: The following morning (May 18th), LARPD Field Supervisor and certified arborist, Stephen Boothe, inspected the site of the fallen tree and completed a California Tree Failure Report. (Attachment B) In the report, Stephen noted there was no apparent evidence of decay, disease or damage on the outside of the tree and the foliage appeared healthy. The interior of the tree at the base did exhibit signs of rot or decay (less than 25% of the cross sectional area). It is his opinion that this decay weakened the tree and the windy/stormy weather conditions on the day of the incident were enough to cause the fall. After the investigation was completed, Parks staff removed the fallen tree. LARPD Field Supervisor and certified arborist, Kevin Brown, also inspected the remaining base of the tree and observed similar findings. It is his opinion that pathogens likely entered the tree at the crown, or graft (Attachment C) thus causing internal decay that was not visible from the outside.

2014 TREE SURVEY: In October of 2014 a tree survey was conducted by Field Supervisor and certified arborist, Kevin Brown, on all of the trees located in the Loyola parking lot and the adjacent areas, including the fallen tree described in this report. The condition of the trees was graded on a 1-5 scale, with 5 being the best. (Attachments D and E) At that time, the tree in question rated a 5, as noted in the survey.

At the time of the survey, there were 44 trees of this species in the lot and three in the adjacent areas. As of today, there are 32 trees remaining in the parking lot and one in the turf area near the ball fields. Since 2014, 12 trees have been removed from tree wells in the parking lot and one removed from the turf area. These trees were removed due to visible damage or disease. In addition to this, 13 of the remaining trees in the parking lot have been slated for removal in conjunction with the construction of the planned solar parking structure.

RECOMMENDATION: In Kevin Brown's observations regarding this species of tree (Attachment C), he describes the normal life span of this species to be 25 years on average. The trees in Robert Livermore Park are estimated to be approximately 20 years old. It is reasonable to assume that we will see more failures in the next five years. Staff is visually inspecting the remaining trees now, but as evidenced by this incident, visual inspection has limitations. It is my recommendation that the remaining trees be removed within the next five years and replaced with a hardier species. It should be noted that all of the trees in question are planted in four-foot tree wells within the parking lot. This is not an ideal condition for any tree. We might consider not replacing some/most of these trees at all. Doing so would require us to mitigate for the removal by planting 2-3 per tree removed elsewhere within the District.

ATTACHMENTS:

- A. LARPD Incident Report
- B. California Tree Failure Report
- C. Tree Description
- D. Tree Location and Condition Survey (specific)
- E. 2014 Tree survey (All)
- F. Fallen Tree Image
- G. Police Report



Livermore Area
Recreation and Park District
An independent special district

ATTACHMENT A

ACCIDENT/INCIDENT/LOSS REPORT involving staff and/or the public

INSTRUCTIONS FOR COMPLETION- When anyone sustains injury, loss, or property damage while on District property, or participating in a District activity, complete and submit this form within 24 hours to your supervisor.

IMPORTANT STEPS TO FOLLOW!

1. Keep calm, assist any injured or upset individuals, and if necessary, call for assistance.
2. Do not admit fault or blame anyone. Just demonstrate sincere interest in helping people.
3. Get the name of the injured person(s) and/or owner of damaged property and/or any witnesses.
4. Examine the accident/incident scene, address any immediate safety issues, and take pictures.
5. Do not discuss details about the accident/incident, except with: your supervisor, the police or CAPRI's Risk Manager.

NOTE! Call 911 if necessary, or if there are serious injuries or extensive property damage.

Date of Occurrence	Time of Occurrence	Facility Name & Location (Address)	Time if 911 Notified
May 17, 2020	2:15 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM <input type="checkbox"/> Unknown	Robert Livermore Park 491 Loyola way, Livermore, CA. 94550	<input type="checkbox"/> AM <input type="checkbox"/> PM

Person(s) Involved. (Continue on another piece of paper and attach, if necessary).

Police/Fire Incdt Report No. 20-2685

1. Name	Ashley Greene	Age		DOB	
Address		Phone			
2. Name		Age		DOB	
Address		Phone			

Describe the accident/incident. What happened, where and who was involved?

Ms. Greene was seated at a bench when a nearby tree broke at the trunk and fell causing scratches to her shoulder, back, hand and eye. FALCK ambulance treated her and Livermore Police Department took a report (#20-2685). Here injuries were minor and she was treated and released on scene. Rangers Sousa and Thomas caution taped off the fallen tree and informed maintenance of the issue. See attached Incident Report.

Describe any contributing factors (ie weather, temperature, other indoor/outdoor conditions) that may have impacted the situation.

If injuries occurred:

Describe the injury/illness/body parts/treatment including who was hurt/injured in detail.

Scratches to right side, shoulder, back, hand and eye.

Was first aid/treatment given? ☐ Yes ☒ No ☐ Refused

If yes, what type and by whom?

Injured person: ☐ Continued activity ☒ Transported home ☐ Transported to doctor ☐ Transported to emergency facility

Other:

Name of doctor/emergency facility/address

Transported by: ☐ Self ☐ Ambulance Other: Her mother arrived to drive her home.

If property damage occurred:

Owner name

Business Phone

Address

Cell Phone

Describe the property damage in detail

Witness(es)

Name, Phone, Address

1.

2.

For employee-involved accidents only:

Did injury cause loss of time (other than on day of injury?)

☐ Yes

☐ No

If yes, last day worked

Time (in hours) lost from work on day of injury

Will this injury restrict employee's normal job duties?

☐ Yes

☐ No

If restricted, approximately how many days?

Name of person completing report

Doug Sousa

Title

Field Supervising Ranger

Unit/Program area

16

Phone

925-960-2400

Cell phone

925-758-9932

Signature of person completing report

Supervisor Investigation and Follow Up

Describe immediate causes such as: distraction, inattention, failure to use safety equipment, incorrect lifting, etc.

Recommended corrective action

☐ Additional paperwork or supplemental information attached. # of additional pages:

Supervisor Signature

Date

Department Manager Signature

Date

Managers: if applicable, forward to Administrative Services Manager, AGM, and/or GM.

Admin. Services Manager Signature

Date

Assistant General Manager Signature

Date

General Manager Signature

Date

Livermore Area Recreation and Park District

Report of Incident

TO: Jill Kirk

FROM: Doug Sousa

INCIDENT: Tree fell on Visitor

FACILITY: Robert Livermore Park

LOCATION: Tables near Baseball Fields

DATE: 5/17/2020 **TIME:** 2:15 pm

DESCRIPTION OF INCIDENT:

On 5/17/2020, at roughly 1415 hours, Ranger Vickie Eggert overheard an unintelligible call over the radio for a Ranger unit. Ranger Eggert followed up by calling Livermore Police Department (LPD) Dispatch. She was told that a visitor seated at a table at Robert Livermore Park had a tree fall on her.

Ranger Eggert alerted all Ranger staff. Rangers Doug Sousa and Dan Thomas were closest and responded.

Upon arrival a woman, later identified as Ashley M. Greene, was being treated in the back of an ambulance while LPD officers were taking her statements.

Ranger Thomas and I inspected the fallen tree. The tree appeared to have broken at the base and was detached from the rest of the trunk, which was still in the ground. The tree appeared to be approximately 12-15 feet in height. We inspected the branches and some of them appeared to be dead and or brittle.

We spoke with LPD who told us the following information in summary. Greene was sitting on a bench near field 2 when the tree fell causing abrasions to her shoulder, back, hand and eye. Refer to LPD for additional information. Case number 20-2685.

Brian Hall from LARPD maintenance division arrived on scene. Hall took several pictures of the tree and told us his crew would dispose of the tree the next day.

Ranger Thomas and I placed caution tape around the fallen tree.

Greene was released on scene by FALCK.

ACTION TAKEN:

Took information, caution taped off the fallen tree, informed maintenance of the issue, wrote Incident Report and Capri form.



Signature of Person Making Report

Supervisor

Tree Genus RYRUS
Species calleryana
Cultivar (if known) Chanticleer
Common name Flowering Pear Tree
Approx. age 20 yrs., Height 24 ft., DBH 22 in.
Crown spread 18' CIR

Tree Owner LAK PD
Site: County Alameda
City Livermore
Address/Park 4444 East Avenue
3 Site category (choose one): 1-Residential 2-Street
3-Park 4-School 5-Highway 6-Parking lot 7-Mall 8-Other

DETAILS OF TREE FAILURE

- 3 (1) Date of failure: 5/17/2020 (Mo/Day/Yr)
(2) Time of failure: 3:00 (Hr/AM or PM)
(3) Location of failure on tree (choose one)
1-Trunk: ft. above ground, inches break diam.
2-Branch: ft. from attachment, in. break diam.
4 3-Root (including uprooting)
(4) Site use (choose one) (Explain on p.2 Additional Info)
1-Undeveloped
2-Low use (intermittent vehicles and/or people)
3-Medium use (permanent structures, intermittent vehicles and/or people)
4-High use (permanent structures, frequent vehicles and/or people)
2 (5) Stand type: 1-Natural 2-Planted 3-Mixed
1 (6) Tree occurring 1-Alone 2-In a group 3-Altered stand

TREE STRUCTURAL DEFECTS

- 3 (7) Choose up to three, in the order of importance
1-Failed portion dead 8-Embedded bark in crotch
2-Multiple trunks/stems 9-Crook or sweep
3-Dense crown 10-Leaning trunk
4-Heavy lateral limbs 11-Cracks or splits (describe p. 2)
5-Uneven branch distribution: onesidedness 12-Kinked or girdling roots
6-Uneven branch distribution: top-heavy 13-None apparent
7-Branched at same point 14-Other (describe p. 2)

TREE DECAY OR INJURY

- 1 (8) Type of decay at failure location (choose one)
1-Root rot 2-Heart rot 3-Sap rot
4-Heart rot and sap rot 5-No decay noted
1 (9) Extent of decay or cavity (% cross-sectional area)
(For root failure estimate % structural roots decayed)
1-0-25% 2-25-50% 3-50-75% 4-75-100% 5-Unknown
2 (10) Fungal sporophores or conks found near failure location?
1-Yes 2-No
3 (11) Other injury at failure location
(Choose up to three, in order of importance)
1-Mechanical 2-Lightning 3-Insect 4-Animal
5-Chemical 6-Vehicle 7-Fire 8-None 9-Other (p. 2)
(12) Other injury, entire tree (same choices as 11)
(Choose up to three, in order of importance)

MAINTENANCE HISTORY

- 7 (13) Pruning at failure location (Choose up to three)
1-Heading cuts - moderate amount 5-Flush cuts
2-Heading cuts - severe 6-Root pruning
3-Thinning cuts (or drop-crotching) 7-No pruning
4-Lion-tailing 8-Other (p. 2)
(14) Pruning on entire tree (Same choices as 13)
(Choose up to three)
6 (15) Other maintenance (Choose up to two)
1-Cable/hardware failure 4-Cavity treatment
2-Staking/props 5-Injections
3-Girdling wire, rope, etc. 6-None

SOIL AND ROOT CONDITIONS AT SITE

- 5 (16) Restricted roots (Choose up to two)
1-Raised planter or bed 4-Root cutting
2-Container or boxed tree 5-Not applicable
3-Root barriers 6-Other (p. 2)
1 (17) Irrigation Tree was mature
1-None 3-More than once per mo.
2-Less than once per mo. 4-More than 3X per mo.
8 (18) Ground cover under tree (Choose up to two)
1-Bare soil 5-Herbaceous plants
2-Mulch 6-Shrubs
3-Turf 7-Mixed planting
4-Native cover 8-Paving 9-Other
5 (19) Soil in tree vicinity (Choose one)
1-Good condition 3-Saturated 5-Shallow
2-Compacted 4-Dry 6-Other (p. 2)
6 (20) Site topography/soil changes (Choose up to two)
1-Excavation-depth ft. 4-Slope erosion
2-Grade change - cut 5-Streambank erosion
3-Grade change - fill 6-Not applicable


WEATHER AT TIME OF FAILURE

- 2 (21) Wind speed: 1-Low (less than 5 mph)
2-Moderate (2-25 mph) 3-High (25+ mph)
1 (22) Wind 1-Gusty 2-Steady
1 (23) Wind in prevailing direction for season? 1-Yes 2-No
1 (24) If branch failure, was wind direction 1-Parallel to OR
2-At right angles to branch direction? (Omit if no wind)
(25) Temperature: 60° degrees F
1 (26) Precipitation (Choose one)
1-Rain 2-Snow 3-Ice 4-Fog or mist 5-None

Flowering pear tree failed at the base of tree trunk at root flare of tree.
There was no indication of decay (appears to be white rot) around outside of tree.
There were no conks or mushrooms to indicate any decay, nor any cankers observed on tree trunk. Tree appeared to be ~~normal~~ normal with green leaves, (except black spot on leaves).
(see photos attached)

II. Results of this tree failure (i.e., property damage, personal injury, etc.):

Complete tree failure fell on female citizen resting on picnic bench nearby.
Emergency personnel arrived; victim refused any medical treatment or emergency services to hospital. Victim left scene on own accord.



III. Damage estimate (costs for clean-up; indicate other costs if known):

Complete loss of tree. Tree removal costs for standard tree chipping at
Hemlock for one (1) hour each of work.

IV. Additional information and comments:

I observed white rot on inside of tree at failure point. Very little rot cavity observed.
(see additional photos to be attached)


Person reporting Stephen Boothe Date 5/18/2020
Title Field Supervisor Agency Livermore Area Recreation & Park District
Address 3500 Robertson Park Road
Livermore, CA, 94550
Telephone (425) 382 3334

Please complete this report to the fullest extent, include any available photographs, and send to your local Cooperative Extension office or to TREE FAILURE REPORT, Dept. of Environmental Horticulture, University of California, Davis, CA 95616. Direct any questions to your local Cooperative Extension office or to Alison Berry (916) 752-0130. Thank you.

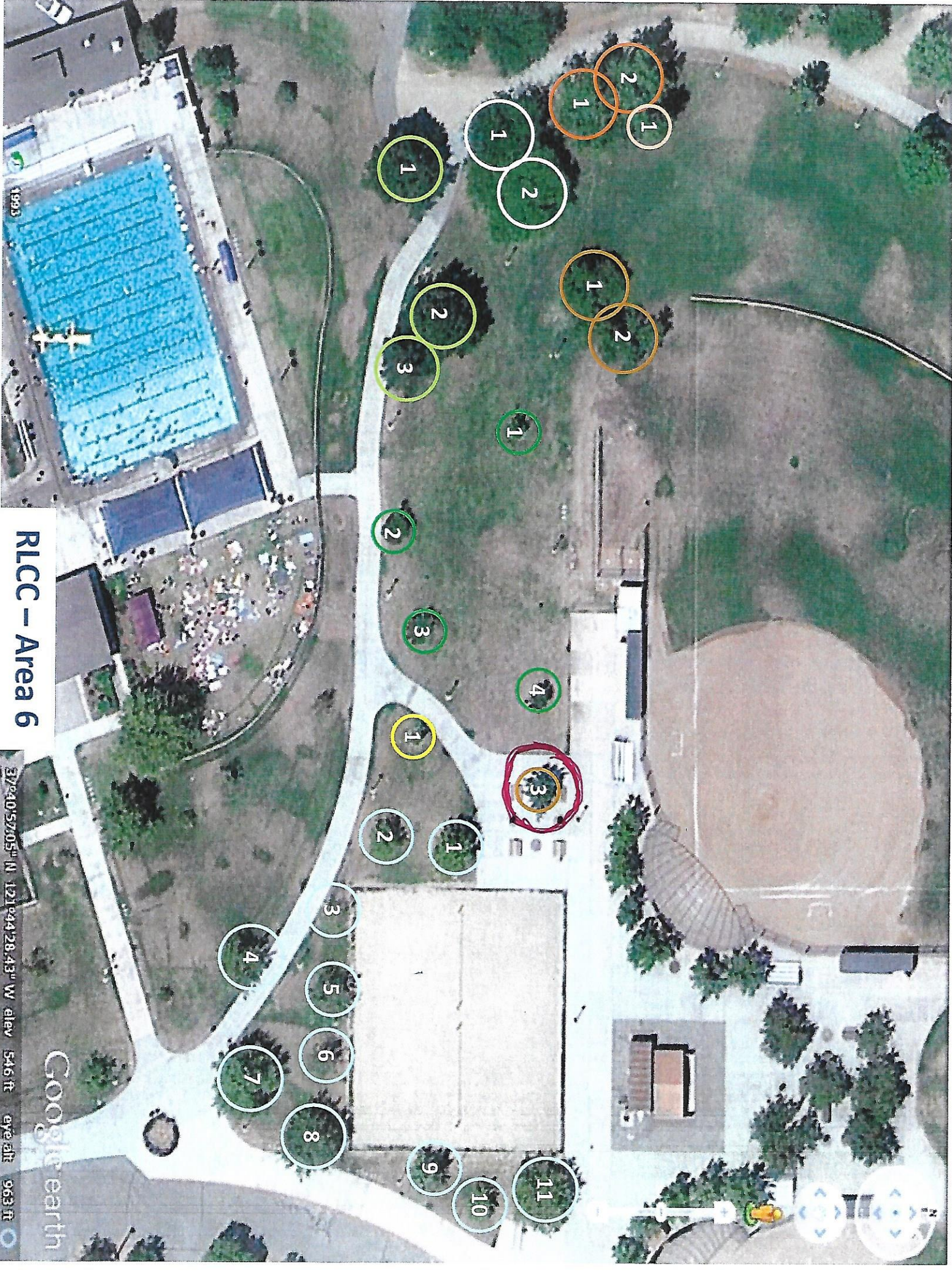
The information in this report will remain confidential, and will only be used to develop statistical and general information about tree failures by species and type of failure.

If additional copies are needed, please photocopy or request from UC Davis.

A.M. Berry
L.R. Costello
R.W. Harris



- Tree is identified as a *Pyrus calleryana* (Flowering Pear). This tree was inventoried in October 2014 and rated '5' on a scale of 1-5 (5 being the best).
- After the failure of the tree, appearance of internal trunk decay was evident. There was no external, visual evidence that would have suggested internal trunk decay to this degree. Foliage appeared healthy, crown was full and trunk appeared normal with no obvious signs of injury, conks, discoloration or seepage. Trunk could be considered small (in diameter) for a tree this age, due to less-than-ideal growing conditions.
- Tree was approximately 20 years old. A 25 year lifespan of trees of this variety, grown in these conditions, is not unusual.
- Summary: I believe the failure of the tree was possibly due to a couple of factors. The trunk decay is obviously the primary reason for failure. In a case such as this, pathogens can enter through the area of the crown, or graft, by way of mechanical injury or possible insect activity. Pathogens can then affect the internal stem of the tree without noticeably visible signs on the surrounding bark. This seems to be the case with this tree. While the tree would have failed eventually, the undersized trunk (with full crown) may have played a role in the failure at this specific time.
- Other than visual inspection, I can't think of any other reasonable means of evaluating the health, or possible longevity, of trees. While there may be equipment, or techniques, used to measure the density of tree trunks, branches, etc., I don't believe they would be economically feasible for large numbers of trees.



RLCC - Area 6

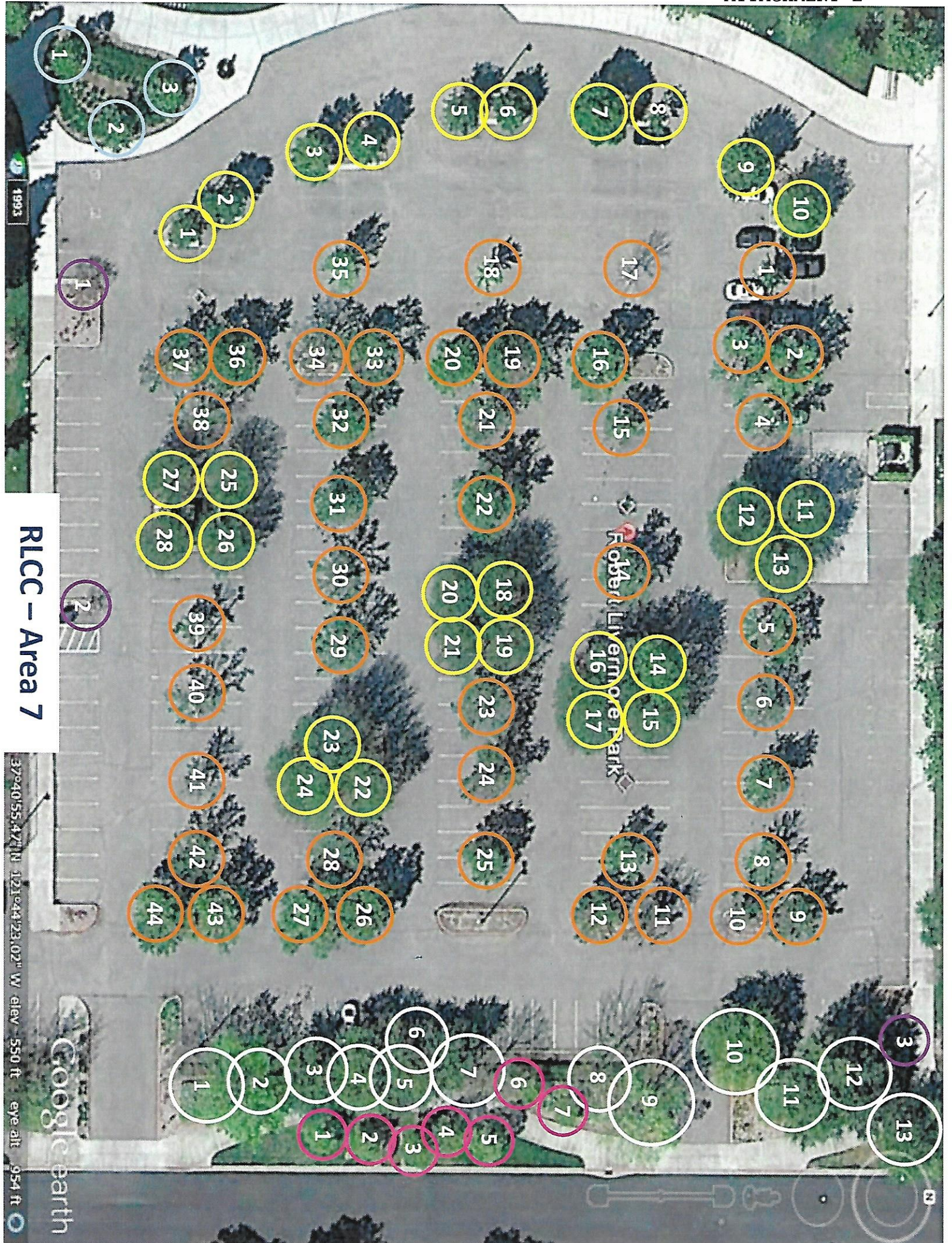
37°40'57.05" N 121°44'28.43" W elev 546 ft eye alt 963 ft

Google earth

RLCC - Area 6

<u>Color</u>	<u>Tree #</u>	<u>Common name</u>	<u>Genus</u>	<u>Specific epithet</u>	<u>Height</u>	<u>Width</u>	<u>Circumference</u>	<u>Rating</u>
Yellow	1	Hackberry	Celtis	occidentalis	10'	6'	7"	3
Tan	1	Liquidamber	Liquidamber	styraciflua	30'	10'	24"	2
Lt. Green	1	Monterey Pine	Pinus	radiata	45'	30'	82"	5
Lt. Green	2	Monterey Pine	Pinus	radiata	50'	35'	82"	3
Lt. Green	3	Monterey Pine	Pinus	radiata	50'	25'	63"	2
Lt. Blue	1	London Plane Tree	Platanus	acerifolia	25'	20'	26"	5
Lt. Blue	2	London Plane Tree	Platanus	acerifolia	20'	12'	18"	3
Lt. Blue	3	London Plane Tree	Platanus	acerifolia	15'	10'	15"	2
Lt. Blue	4	London Plane Tree	Platanus	acerifolia	30'	20'	26"	5
Lt. Blue	5	London Plane Tree	Platanus	acerifolia	20'	20'	26"	5
Lt. Blue	6	London Plane Tree	Platanus	acerifolia	25'	15'	21"	2
Lt. Blue	7	London Plane Tree	Platanus	acerifolia	45'	30'	39"	5
Lt. Blue	8	London Plane Tree	Platanus	acerifolia	45'	25'	37"	5
Lt. Blue	9	London Plane Tree	Platanus	acerifolia	40'	18'	22"	5
Lt. Blue	10	London Plane Tree	Platanus	acerifolia	20'	15'	16"	4
Lt. Blue	11	London Plane Tree	Platanus	acerifolia	40'	25'	38"	5
Brown	1	Flowering Pear	Pyrus	kawakami	25'	20'	36"	4
Brown	2	Flowering Pear	Pyrus	kawakami	25'	20'	37"	4
Brown	3	Flowering Pear	Pyrus	calleryana	20'	15'	19"	5

OCTOBER 2014



RLCC - Area 7

<u>Color</u>	<u>Tree #</u>	<u>Common name</u>	<u>Genus</u>	<u>Specific epithet</u>	<u>Height</u>	<u>Width</u>	<u>Circumference</u>	<u>Rating</u>
Purple	1	Eastern Redbud	Cercis	canadensis	10'	15'	31"	4
Purple	2	Eastern Redbud	Cercis	canadensis	10'	12'	20"	3
Purple	3	Eastern Redbud	Cercis	canadensis	10'	10'	multi	1
Yellow	1	Shamel Ash	Fraxinus	uhdei	25'	10'	19"	3
Yellow	2	Shamel Ash	Fraxinus	uhdei	30'	20'	26"	3
Yellow	3	Shamel Ash	Fraxinus	uhdei	30'	15'	29"	1
Yellow	4	Shamel Ash	Fraxinus	uhdei	30'	15'	27"	5
Yellow	5	Shamel Ash	Fraxinus	uhdei	25'	20'	24"	4
Yellow	6	Shamel Ash	Fraxinus	uhdei	20'	15'	21"	4
Yellow	7	Shamel Ash	Fraxinus	uhdei	30'	25'	33"	5
Yellow	8	Shamel Ash	Fraxinus	uhdei	20'	15'	14"	2
Yellow	9	Shamel Ash	Fraxinus	uhdei	35'	30'	31"	5
Yellow	10	Shamel Ash	Fraxinus	uhdei	35'	20'	35"	5
Yellow	11	Shamel Ash	Fraxinus	uhdei	50'	25'	42"	3
Yellow	12	Shamel Ash	Fraxinus	uhdei	50'	25'	48"	3
Yellow	13	Shamel Ash	Fraxinus	uhdei	50'	25'	43"	3
Yellow	14	Shamel Ash	Fraxinus	uhdei	50'	30'	45"	3
Yellow	15	Shamel Ash	Fraxinus	uhdei	50'	20'	41"	3
Yellow	16	Shamel Ash	Fraxinus	uhdei	50'	20'	49"	3
Yellow	17	Shamel Ash	Fraxinus	uhdei	50'	30'	42"	3
Yellow	18	Shamel Ash	Fraxinus	uhdei	50'	25'	41"	3
Yellow	19	Shamel Ash	Fraxinus	uhdei	50'	25'	39"	3
Yellow	20	Shamel Ash	Fraxinus	uhdei				

RLCC - Area 7

<u>Color</u>	<u>Tree #</u>	<u>Common name</u>	<u>Genus</u>	<u>Specific epithet</u>	<u>Height</u>	<u>Width</u>	<u>Circumference</u>	<u>Rating</u>
Yellow	21	Shamel Ash	Fraxinus	uhdei	50'	25'	37"	3
Yellow	22	Shamel Ash	Fraxinus	uhdei	50'	30'	42"	3
Yellow	23	Shamel Ash	Fraxinus	uhdei	50'	20'	49"	3
Yellow	24	Shamel Ash	Fraxinus	uhdei	50'	30'	52"	3
Yellow	25	Shamel Ash	Fraxinus	uhdei	30'	25'	34"	3
Yellow	26	Shamel Ash	Fraxinus	uhdei	30'	25'	40"	3
Yellow	27	Shamel Ash	Fraxinus	uhdei	30'	25'	36"	3
Yellow	28	Shamel Ash	Fraxinus	uhdei	30'	25'	35"	3
Dk. Pink	1	Crape Myrtle	Lagerstroemia	indica	30'	15'	16"	5
Dk. Pink	2	Crape Myrtle	Lagerstroemia	indica	30'	15'	16"	5
Dk. Pink	3	Crape Myrtle	Lagerstroemia	indica	25'	15'	16"	5
Dk. Pink	4	Crape Myrtle	Lagerstroemia	indica	30'	15'	16"	5
Dk. Pink	5	Crape Myrtle	Lagerstroemia	indica	30'	15'	18"	5
Dk. Pink	6	Crape Myrtle	Lagerstroemia	indica	15'	10'	multi	5
Dk. Pink	7	Crape Myrtle	Lagerstroemia	indica	15'	10'	12"	5
Lt. Blue	1	London Plane Tree	Platanus	acerifolia	25'	15'	20"	2
Lt. Blue	2	London Plane Tree	Platanus	acerifolia	25'	20'	24"	5
Lt. Blue	3	London Plane Tree	Platanus	acerifolia	20'	15'	21"	5
Dk. Orange	1	Flowering Pear	Pyrus	calleryana	18'	15'	16"	5
Dk. Orange	2	Flowering Pear	Pyrus	calleryana	40'	25'	40"	3
Dk. Orange	3	Flowering Pear	Pyrus	calleryana	35'	25'	40"	1

RLCC - Area 7

<u>Color</u>	<u>Tree #</u>	<u>Common name</u>	<u>Genus</u>	<u>Specific epithet</u>	<u>Height</u>	<u>Width</u>	<u>Circumference</u>	<u>Rating</u>
Dk. Orange	4	Flowering Pear	Pyrus	calleryana	35'	25'	35"	1
Dk. Orange	5	Flowering Pear	Pyrus	calleryana	25'	25'	35"	1
Dk. Orange	6	Flowering Pear	Pyrus	calleryana	30'	20'	35"	3
Dk. Orange	7	Flowering Pear	Pyrus	calleryana	30'	20'	33"	5
Dk. Orange	8	Flowering Pear	Pyrus	calleryana	30'	15'	25"	1
Dk. Orange	9	Flowering Pear	Pyrus	calleryana	30'	20'	32"	1
Dk. Orange	10	Flowering Pear	Pyrus	calleryana	30'	20'	32"	1
Dk. Orange	11	Flowering Pear	Pyrus	calleryana	30'	20'	36"	1
Dk. Orange	12	Flowering Pear	Pyrus	calleryana	20'	20'	33"	1
Dk. Orange	13	Flowering Pear	Pyrus	calleryana	18'	18'	25"	2
Dk. Orange	14	Flowering Pear	Pyrus	calleryana	25'	25'	35"	4
Dk. Orange	15	Flowering Pear	Pyrus	calleryana	20'	15'	27"	4
Dk. Orange	16	Flowering Pear	Pyrus	calleryana	25'	25'	42"	5
Dk. Orange	17	Flowering Pear	Pyrus	calleryana	20'	15'	19"	1
Dk. Orange	18	Flowering Pear	Pyrus	calleryana	20'	10'	14"	5
Dk. Orange	19	Flowering Pear	Pyrus	calleryana	30'	25'	42"	1
Dk. Orange	20	Flowering Pear	Pyrus	calleryana	30'	25'	39"	1
Dk. Orange	21	Flowering Pear	Pyrus	calleryana	30'	25'	36"	1
Dk. Orange	22	Flowering Pear	Pyrus	calleryana	30'	30'	36"	5
Dk. Orange	23	Flowering Pear	Pyrus	calleryana	30'	20'	37"	5
Dk. Orange	24	Flowering Pear	Pyrus	calleryana	30'	20'	42"	4
Dk. Orange	25	Flowering Pear	Pyrus	calleryana	30'	20'	31"	5
Dk. Orange	26	Flowering Pear	Pyrus	calleryana	35'	25'	39"	5
Dk. Orange	27	Flowering Pear	Pyrus	calleryana	30'	25'	44"	5

RLCC - Area 7

<u>Color</u>	<u>Tree #</u>	<u>Common name</u>	<u>Genus</u>	<u>Specific epithet</u>	<u>Height</u>	<u>Width</u>	<u>Circumference</u>	<u>Rating</u>
Dk. Orange	28	Flowering Pear	Pyrus	calleryana	30'	25'	34"	1
Dk. Orange	29	Flowering Pear	Pyrus	calleryana	30'	20'	34"	4
Dk. Orange	30	Flowering Pear	Pyrus	calleryana	25'	25'	32"	1
Dk. Orange	31	Flowering Pear	Pyrus	calleryana	25'	25'	31"	4
Dk. Orange	32	Flowering Pear	Pyrus	calleryana	25'	25'	31"	4
Dk. Orange	33	Flowering Pear	Pyrus	calleryana	30'	20'	40"	2
Dk. Orange	34	Flowering Pear	Pyrus	calleryana	30'	20'	40"	1
Dk. Orange	35	Flowering Pear	Pyrus	calleryana	30'	15'	22"	2
Dk. Orange	36	Flowering Pear	Pyrus	calleryana	30'	30'	41"	3
Dk. Orange	37	Flowering Pear	Pyrus	calleryana	30'	30'	36"	1
Dk. Orange	38	Flowering Pear	Pyrus	calleryana	30'	20'	33"	1
Dk. Orange	39	Flowering Pear	Pyrus	calleryana	30'	15'	24"	1
Dk. Orange	40	Flowering Pear	Pyrus	calleryana	30'	15'	33"	1
Dk. Orange	41	Flowering Pear	Pyrus	calleryana	30'	15'	29"	1
Dk. Orange	42	Flowering Pear	Pyrus	calleryana	30'	20'	36"	3
Dk. Orange	43	Flowering Pear	Pyrus	calleryana	30'	25'	39"	5
Dk. Orange	44	Flowering Pear	Pyrus	calleryana	30'	25'	41"	5
White	1	Pin Oak	Quercus	palustris	40'	30'	36"	5
White	2	Pin Oak	Quercus	palustris	40'	30'	44"	5
White	3	Southern Live Oak	Quercus	virginiana	40'	30'	46"	3
White	4	Southern Live Oak	Quercus	virginiana	40'	40'	48"	5
White	5	Southern Live Oak	Quercus	virginiana	40'	40'	48"	5
White	6	Southern Live Oak	Quercus	virginiana	30'	30'	38"	5

RLCC - Area 7

<u>Color</u>	<u>Tree #</u>	<u>Common name</u>	<u>Genus</u>	<u>Specific epithet</u>	<u>Height</u>	<u>Width</u>	<u>Circumference</u>	<u>Rating</u>
White	7	Pin Oak	Quercus	palustris	40'	40'	42"	5
White	8	Pin Oak	Quercus	palustris	35'	30'	43"	5
White	9	Pin Oak	Quercus	palustris	45'	40'	52"	5
White	10	Southern Live Oak	Quercus	virginiana	40'	40'	51"	5
White	11	Southern Live Oak	Quercus	virginiana	40'	30'	39"	5
White	12	Coast Live Oak	Quercus	agrifolia	60'	40'	45"	5
White	13	Southern Live Oak	Quercus	virginiana	40'	30'	58"	5



ATTACHMENT F