



TREE REPLACEMENT REPORT
GRADY RANCH, MARIN COUNTY, CALIFORNIA

November 2008

Prepared for:

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TABLE OF CONTENTS

1.0 INTRODUCTION 1
 1.1 Responsible Parties 1
2.0 PROJECT DESCRIPTION..... 1
 2.1 Existing Native Trees in the Study Area..... 2
 2.2 Project Impacts 2
3.0 IMPLEMENTATION PLAN..... 2
 3.1 Objective of Mitigation..... 2
 3.2 Description of Tree Replacement Areas 3
 3.3 Existing Vegetation in the Tree Replacement Areas..... 3
 3.4 Planting Methods 4
 3.5 Irrigation 4
 3.6 Maintenance Activities 5
4.0 MONITORING PLAN 5
 4.1 Methods 5
5.0 ADDITIONAL RESTORATION PLANTING..... 6
6.0 COMPLETION OF MITIGATION 6
7.0 REFERENCES 7

2.1 Existing Native Trees in the Study Area

The 109-acre Study Area represents a relatively small portion of the larger Grady Ranch Property, and is bounded by Lucas Valley Road to the south, and the Grady Ranch Property boundary to the east. The tree survey area is a portion of the overall Study Area and includes all areas within 50 feet of the proposed limit of grade for the Project. The Study Area includes primarily California bay/oak woodland and native perennial and non-native annual grasslands. Land uses adjacent to the Study Area include low-density residential development to the east, open space/rural development to the south, and open space to the north and west on the remainder of the Grady Ranch Property. Elevations range from approximately 70 to 150 meters. A total of 919 trees were identified and measured in the Study Area, 902 of which are native to the Study Area, including two big leaf maples, 22 California buckeyes, 7 Oregon ash, 6 Fremont cottonwoods, 219 coast live oaks, 37 valley oaks, 3 arroyo willows, 3 blue elderberry, 25 coast redwoods, and 578 California bay trees.

2.2 Project Impacts

Approximately 20 acres of grading will result in impacts to 411 of the surveyed trees to accommodate development of the Project. Of these 411 impacted trees, 306 are native trees larger than 12 inches DBH and therefore require mitigation by the EIR if removed or substantially impacted. Two hundred sixty six (266) of the impacted trees are located within the planned limit of grade and will need to be removed to accommodate the project. One hundred eight (108) of the impacted trees have a portion of their dripline located within the limit of grade and will be substantially impacted by the proposed project. These trees are likely to be removed but will be mitigated even if they are retained due to the expected impacts. The remaining 37 trees are located within 1.5 times the width of their dripline from the limit of grade indicating that some impacts from grading can be expected. These trees will be looked at individually to determine if any of these trees will require removal or be impacted substantially thus requiring mitigation. Impacted trees are shown on construction drawing Tree Removal Plan (LA2.2). As mitigation, native species known from the vicinity will be planted on-site based on a mitigation ratio of 5:1 for impacted oaks and 3:1 for other native tree impacts.

Under the EIR, protected native trees removed must be replaced by one-gallon container trees. A total of 306 protected native trees were identified by a certified arborist as impacted by the Project. As mitigation, a minimum of 1,231 replacement trees will be planted throughout the Project Area both within natural areas and as landscape and street trees throughout the development.

3.0 IMPLEMENTATION PLAN

3.1 Objective of Mitigation

The goal of the mitigation measures for the Project is to provide adequate replacement of impacted native trees as required by the EIR. The objective of the tree replacement mitigation is to establish oaks and other native tree species and begin the process toward a mature woodland. The species found on the site will be planted in suitable areas adjacent to preserved woodlands and also as landscaping trees.

The EIR states that species composition of plantings in the tree replacement program should be consistent with the percentage of each tree species removed. Although the majority of trees proposed for removal are California bay, this species is not recommended for replanting. California bay is a known foliar host for the pathogen that causes Sudden Oak Death syndrome (SOD, *Phytophthora ramorum*). Foliar hosts are thought to be an important component in spreading SOD as the pathogen can fruit (sporulate) within one to three days on infected foliage of California bay trees (COMTF 2006). California bay is also a listed High Fire Hazard pyrophyte in Fire Safe Marin's Pyrophytic Vs. Fire Resistant Plants. Pyrophytic plants are those that ignite readily and burn intensely potentially causing more destructive fires in areas that are heavily vegetated with these species. Given Grady Ranch's location at the urban rural interface and in a high risk SOD area, California bay is not recommended for replanting at Grady Ranch.

Replacement trees will be species found on site and may include coast live oak (*Quercus agrifolia*), valley oak (*Q. lobata*), California buckeye (*Aesculus californica*), blue elderberry (*Sambucus mexicana*), big leaf maple (*Acer macrophyllum*), Oregon ash (*Fraxinus latifolia*) and arroyo willow (*Salix lasiolepis*). These species are more suited to the planting areas and goals of the restoration than California bay. Additionally, although valley oak makes up a minority of the oak canopy in the existing woodlands, it will be more heavily represented in tree replacement areas relative to existing conditions because members of the white oak group are not known to be susceptible to *P. ramorum*. California buckeye is also a known host to *P. ramorum* but is considered a valuable fire safe tree species by Fire Safe Marin and will only be planted in riparian areas.

Observed establishment of oaks among the non-native grasses of the riparian canopy edges indicates that sun, soil and moisture conditions of the proposed tree replacement areas are suitable for oak establishment. Under natural conditions, soil moisture may only be suitable for successful establishment in years when rainfall patterns allow roots to reach deep groundwater. However, with temporary irrigation, planted oaks should survive the dry season to allow roots to reach deep groundwater regardless of rainfall patterns.

3.2 Description of Tree Replacement Areas

The proposed Tree Replacement Areas are on-site, primarily in proposed riparian restoration areas. Placement of the trees within the riparian areas will ensure their survival and replacement of ecological function. Other planting areas will be adjacent to existing oak woodland.

3.3 Existing Conditions in the Tree Replacement Areas

The proposed Tree Replacement Areas will be located along stream corridors that are proposed for stream and riparian restoration. Native riparian trees will be planted along the sloped banks of Miller and Grady creeks. Primary planting areas for oaks and other native upland trees will be open canopy non-native upland grasslands above the top of bank of Miller and Grady creeks and adjacent to existing oak woodlands. The grasslands are predominantly vegetated with non-native wild oats (*Avena* spp.) and rattlesnake grass (*Briza maxima*). Big leaf maple and Oregon ash will be planted within the upper Miller Creek stream restoration areas that support existing canopy cover to diversify the species composition of the restored riparian areas.

The gently sloping topography and deep soils of the selected Tree Replacement Areas are suitable for tree replacement plantings. The Tree Replacement Areas are mapped in the Soil

Survey of Marin County as Blucher-Cole complex, 2 to 5 percent slopes. These soils are poorly drained and were formed in alluvium weathered from various types of rock (USDA 1985). Permeability of these soils is classified as “moderate” and the depth to the water table is generally 3.5 to 5 feet in late winter and early spring providing an ample water source for oak establishment and survival.

3.4 Planting Methods

A minimum of 1,231 native trees will be planted from one gallon containers in the areas shown in the drawing Tree Preservation and Replacement Plan (LA2.1). Trees will be planted at wide spacing to ensure minimal competition between trees, and proper establishment of root, trunk, and crown structures to ensure their long-term survival. At the proposed average spacing of 17 feet on center, the resulting density will be 150 trees per acre. In addition to the Tree Replacement Area plantings, native trees will be planted throughout the Project Area as landscape and street trees, which will serve as supplemental replacement plantings.

Native trees will be planted from either container stock obtained from commercial sources or suitable young trees that are salvaged and transplanted from on-site. Container planting will occur in holes that are approximately twice the size of each plant container, and backfilled with topsoil and fertilizer. Weed mats or mulch will be installed around each planting to discourage competition for light and water from weeds. Deer activity in the area is high, so plantings may be protected from browsing with plant cages. Staking of trees will be conducted as plant size warrants.

Symptoms of SOD have been witnessed in the Study Area, and construction activities may provide new transmission pathways for the pathogen that causes SOD, *P. ramorum*. Precautionary measures to protect against the introduction of *P ramorum* during construction and planting will include:

1. Work in areas with *P. ramorum*- susceptible species should be limited to the dry season, or if necessary to work during the wet season, equipment should be kept on paved or dry surfaces, avoiding mud.
2. Introduction of collected plant or soil material from host areas in the 14-county quarantine area into the Project Area should be avoided.
3. Shoes, pruning equipment, or other equipment that has been previously used in SOD infested areas should be sterilized with Lysol spray, a 70% or greater solution of alcohol, or a diluted bleach solution (1 part bleach to 9 parts water) before and after working in the Project Area.
4. Any vehicles that enter or exit the Project Area should be clean of any soil or plant material.

3.5 Irrigation

Planted trees will receive irrigation during the dry season until established as determined by the monitoring biologist. This irrigation will ensure the establishment of these plants and reduce the need for replacement plantings.

3.6 Maintenance Activities

Maintenance activities will include: 1) inspections of irrigation systems, plant cages and/or fencing, followed by repair, replacement, or removal of malfunctioning items, and 2) inspections for the presence of *P. ramorum* infestation and action to discourage its spread including removal of infected plant material in a manner consistent with recommendations established by the California Oak Mortality Task Force.

The irrigation systems will be inspected monthly during the dry season and repaired as needed. Support structures and protective cages/fencing will be inspected two times per year for functionality. A properly installed support structure should hold the plant upright and not impede growth. Bent or fallen support structures, cages, and or fencing will be repaired or replaced as necessary. Rebar posts and supportive ties will be straightened or reinstalled as needed. Supportive structures and protective cages/fencing will be removed when they are no longer deemed necessary by a qualified biologist.

Presence of symptoms related to SOD will be monitored during annual monitoring visits, and corrective actions will be undertaken as soon as possible after observation. Biologists will respond to suspicion of infection by collecting a specimen and sending it to an appropriate laboratory for analysis.

4.0 MONITORING PLAN

4.1 Methods

Monitoring by a qualified biologist or arborist will be performed in order to determine whether replacement trees have achieved proposed performance criteria. Monitoring will be conducted in the summer of each year, before the effective planting period so that replacement plantings, if needed, may be installed before the winter rains. Survival, health and relative size of all planted tree species within the Tree Replacement Areas will be assessed. Over-planting to ensure meeting success criteria may be conducted. If additional plants are installed, success will be evaluated based on achieving the target number of plants necessary to meet the EIR mitigation requirements outlined in this report.

If Year 1 survival goals are not achieved, the appropriate number of trees will be re-planted as part of a remedial planting during the first fall following initial planting or supplemental planted replacement trees will be identified on-site for monitoring. In subsequent years, deceased trees will be replaced on an annual basis if needed. Photographs will be taken at permanent photo points within each Tree Replacement Area to document habitat development during each monitoring year. Annual monitoring will be conducted for a minimum of five years.

Annual reports that discuss monitoring methodology and results will be submitted to the County of Marin. These reports will assess the progress of the site in terms of planted tree survival, and identify any problems with SOD, and/or other general causes of poor survival or woodland degradation. If necessary, recommendations to improve success will be made. Monitoring will be conducted and reports will be prepared under the supervision of a certified arborist. Annual reports will be prepared and submitted to the agencies by November 30 of each monitoring year. The tree replacement measures will be considered a success if by the end of the five year monitoring period, the number of planted trees meets or exceeds the required number of replacement plantings.

5.0 ADDITIONAL RESTORATION PLANTING

Additional native trees above and beyond the 790 trees required for mitigation will be planted in the creek restoration areas for habitat enhancement and in landscape areas adjacent to proposed buildings and roadways as ornamental specimens.

The Grady Ranch Conditions of Approval favor preserving existing oaks from on-site and provide a reduction in mitigation requirements from 5 to 1 to 3 to 1 when this occurs. Oak regeneration areas (areas with high density of existing oak seedlings) were mapped on-site (see LA2.1) and every effort will be made to preserve these features per the measures outlined in the Tree Preservation Guidelines Report.

On-site collection of acorns is also included as part of the Marin County Grady Ranch Conditions of Approval. Oak seeds will be collected during the fall months, planted in containers and grown for one or more years until ready to transplant. To encourage the use of on-site plant material the use of on-site acorns will also reduce the replacement ratio from 5 to 1 to 3 to 1.

Efforts should be made to salvage young native trees that may be impacted by project activities but are deemed salvageable. These trees should be kept in containers and cared for appropriately to ensure their survival until an appropriate time to plant them. Similar to the above two actions, salvaging native oak trees will reduce oak mitigation requirements from 5 to 1 to 3 to 1.

6.0 COMPLETION OF MITIGATION

Upon completion of five years of monitoring, a final report will be sent to the County of Marin detailing the results of the final year of monitoring. If the County requires a site visit to confirm successful completion of the compensatory mitigation effort it is requested that a minimum of 24 hours notice be given prior to such a site visit by County staff. If planted trees fail to become established and additional plantings are required, monitoring will continue until there are established trees equal to or exceeding number of required plantings.

7.0 REFERENCES

- California Oak Morality Task Force (COMTF). 2005. Sudden Oak Death Guidelines for Arborists. Accessed October 2, 2008 <http://www.suddenoakdeath.org>
- County of Marin 2002, Native Tree Preservation and Protection Ordinance Number 3342 of Title 22 of the Marin County Code
- Hickman, J.C. (ed.) 1993. The Jepson manual: higher plants of California. University of California Press.
- Moritz, Ray and Svihra, Pavel 1998. Pyrophytic vs. Fire Resistant Plants. Fire Safe Marin in cooperation with the University of California.
- Nichols Berman 1996, Final Environmental Impact Report Ltd. Grady Ranch/Big Rock Ranch Master Plan, Marin County Community Development Agency.
- U.S. Department of Agriculture, Natural Resources Conservation Service (USDA). 1985. Soil Survey of Marin County, California. In cooperation with the University of California Agricultural Experiment Station.

APPENDIX A
IMPACTED TREES ON GRADY RANCH

Appendix A - Impacted Trees on Grady Ranch

Grady Ranch Tree Impacts								November 19, 2008
WRA ID	CSW ID	Species	DBH (in)	Condition	Health	Structure	Mitigation Required	Mitigation Ratio
16	13016	Quercus garryana	10.5	Fair	Fair	Fair	No	5
17	13017	Umbellularia californica	11.8	Fair	Good	Poor	No	0
18	13018	Umbellularia califor	9.6	Fair	Fair	Poor	No	0
19	13019	Quercus agrifolia	11.4	Poor	Poor	Poor	No	5
20	13020	Umbellularia califor	8.7	Fair	Poor	Fair	No	0
21	13021	Umbellularia californica	4.4	Fair	Good	Fair	No	0
22	13022	Umbellularia californica	6.7	Fair	Good	Fair	No	0
25	13025	Quercus agrifolia	11	Fair	Good	Fair	No	5
132	13132	Aesculus californica	10.3	Fair	Fair	Fair	No	0
133	13133	Aesculus californica	8.6	Good	Good	Fair	No	0
136	13136	Umbellularia californica	7.1	Fair	Fair	Fair	No	0
141	13141	Umbellularia californica	7.9	Good	Good	Good	No	0
142	13142	Umbellularia californica	10.2	Good	Good	Good	No	0
726	10726	Quercus agrifolia	9.1	Good	Good	Good	No	5
817	10817	Quercus agrifolia	7	Good	Good	Good	No	5
820	10820	Quercus agrifolia	10.3	Fair	Fair	Fair	No	5
832	10832	Quercus agrifolia	9.4	Fair/Poor	Fair/Poor	Fair/Poor	No	5
833	10833	Quercus agrifolia	5.6	Good	Good	Fair	No	5
835	10835	Umbellularia califor	7.4	Poor	Poor	Fair	No	0
836	10836	Umbellularia californica	10.8	Fair	Fair	Good	No	0
841	10841	Quercus agrifolia	9	Fair	Fair	Good	No	5
843	10843	Quercus agrifolia	6.5	Fair	Fair	Fair	No	5
847	10847	Umbellularia califor	8.4	Fair	Fair	Fair	No	0
1028	11028	Aesculus californica	11.7	Fair	Fair	Poor	No	0
1045	11045	Umbellularia califor	10.6	Fair	Fair	Fair	No	0
1064	11064	Umbellularia califor	10.1	Fair	Fair	Fair	No	0
1080	11080	Umbellularia califor	5.4	Fair	Fair	Poor	No	0
1082	11082	Quercus agrifolia	4.3	Fair	Fair	Poor	No	5
1084	11084	Umbellularia califor	9	Poor	Fair	Poor	No	0
1090	11090	Prunus sp.	20	Poor	Poor	Poor	No	0
1091	11091	rosaceae?	12.5	Fair	Fair	Fair	No	0
1092	11092	Pyracantha	20	Fair	Fair	Poor	No	0
1093	11093	Quercus agrifolia	11.4	Fair	Fair	Fair	No	5
1102	11102	Umbellularia califor	7.2	Fair	Fair	Fair	No	0
1118	11118	Umbellularia califor	4	Fair	Fair	Fair	No	0
1123	11123	Umbellularia califor	5.2	Fair	Fair	Fair	No	0
1126	11126	Umbellularia califor	6.7	Fair	Fair	Fair	No	0
1158	11158	Umbellularia califor	5.8	Good	Good	Good	No	0
1159	11159	Umbellularia califor	7.1	Good	Good	Fair	No	0
1248	11248	Umbellularia californica	6.1	Fair	Good	Poor	No	0
1251	11251	Umbellularia californica	9	Fair	Good	Fair	No	0
1265	11265	Prunus sp.	32.8	Fair	Good	Fair	No	0
1266	11266	Prunus sp.	9.4	Poor	Poor	Poor	No	0
1267	11267	Prunus sp.	16.5	Poor	Poor	Poor	No	0
1268	11268	Prunus sp.	19.3	Fair	Fair	Fair	No	0
1269	11269	Prunus sp.	4	Fair	Fair	Fair	No	0
1282	11282	Umbellularia califor	2.6	Fair	Good	Fair	No	0
1283	11283	Quercus agrifolia	4.3	Poor	Fair	Poor	No	5
1284	11284	Quercus agrifolia	6.5	Poor	Fair	Poor	No	5
1289	11289	Quercus agrifolia	4.1	Poor	Fair	Poor	No	5
1316	11316	Quercus agrifolia	5.5	Good	Good	Fair	No	5
1317	11317	Quercus agrifolia	6.3	Fair	Fair	Fair	No	5
1319	11319	Quercus agrifolia	5.6	Good	Good	Fair	No	5
1320	11320	Sequoia sempervirens	6.4	Good	Good	Fair	No	0
1321	11321	Quercus agrifolia	5.7	Good	Good	Fair	No	5
1322	11322	Quercus agrifolia	7.2	Fair	Fair	Fair	No	5
1323	11323	Quercus agrifolia	5.2	Good	Good	Fair	No	5
1330	11330	Umbellularia californica	6.5	Fair	Fair	Fair	No	0
1347	11347	Quercus agrifolia	4.6	Fair	Fair	Fair	No	5
1350	11350	Cedrus deodar	4.7	Fair	Fair	Fair	No	0
1351	11351	Cedrus deodar	5	Fair	Fair	Fair	No	0
1382	1382	Umbellularia califor	5.6	Fair	Fair	Fair	No	0
1406	220	Umbellularia califor	8	Good	Good	Fair	No	0
1409	260	Umbellularia califor	4.1	Fair	Fair	Fair	No	0
1412	249	Umbellularia califor	7	Good	Good	Fair	No	0
1413	0	Umbellularia califor	7.3	Fair	Fair	Fair	No	0
1415	251	Umbellularia califor	5	Good	Good	Good	No	0
1418	4243	Sequoia sempervirens	4.6	Fair	Fair	Good	No	0
1419	4242	Sequoia sempervirens	7.4	Good	Good	Good	No	0
1420	4241	Quercus agrifolia	7.5	Good	Good	Good	No	5

Appendix A - Impacted Trees on Grady Ranch


Grady Ranch Tree Impacts								November 19, 2008
WRA ID	CSW ID	Species	DBH (in)	Condition	Health	Structure	Mitigation Required	Mitigation Ratio
1421	4240	Sequoia sempervirens	9.7	Good	Good	Good	No	0
1422	4239	Quercus agrifolia	7.5	Good	Good	Good	No	5
1423	4238	Sequoia sempervirens	10.1	Good	Good	Good	No	0
1424	4237	Sequoia sempervirens	8.5	Good	Good	Good	No	0
1425	4236	Sequoia sempervirens	9.8	Good	Good	Good	No	0
1426	4235	Sequoia sempervirens	7.5	Good	Good	Good	No	0
1427	4234	Sequoia sempervirens	11	Good	Good	Good	No	0
1428	4233	Sequoia sempervirens	9.6	Good	Good	Good	No	0
1429	4226	Sequoia sempervirens	8.8	Good	Good	Good	No	0
1430	4225	Sequoia sempervirens	11.1	Good	Good	Good	No	0
1434	0	Salix lasiolepus	4.5	Fair	Fair	Poor	No	0
1441	0	Populus fremontii	8.5	Good	Good	Good	No	0
1446	4183	Fraxinus latifolia	6.5	Good	Good	Good	No	0
1447	4184	Fraxinus latifolia	6.6	Good	Good	Good	No	0
1448	4185	Fraxinus latifolia	4.2	Good	Good	Good	No	0
1459	4186	Fraxinus latifolia	10.6	Good	Good	Good	No	0
1460	4182	Fraxinus latifolia	5	Good	Good	Good	No	0
1461	4181	Fraxinus latifolia	5	Good	Good	Fair	No	0
1462	4180	Umbellularia califor	5.9	Good	Good	Good	No	0
1464	4189	Aesculus californica	8.2	Good	Good	Poor	No	0
1472	4170	Quercus lobata	10	Fair	Fair	Good	No	5
1475	133	Umbellularia califor	10	Good	Good	Good	No	0
1485	0	Umbellularia califor	11	Fair	Fair	Fair	No	0
1490	0	Umbellularia califor	5.4	Good	Good	Fair	No	0
1493	0	Quercus agrifolia	8	Good	Good	Fair	No	5
1497	0	Quercus agrifolia	7.1	Good	Good	Good	No	5
1507	4163	Populus fremontii	5.7	Good	Good	Good	No	0
1518	225	Umbellularia califor	5.3	Fair	Fair	Good	No	0
1523	262	Umbellularia califor	4.5	Good	Good	Good	No	0
1529	270	Umbellularia califor	7	Good	Good	Good	No	0
1531	0	Umbellularia califor	5.3	Good	Good	Good	No	0
1533	0	Umbellularia califor	11.1	Good	Good	Good	No	0
1536	244	Umbellularia califor	6.4	Good	Good	Fair	No	0
1538	246	Umbellularia califor	7.3	Good	Good	Good	No	0
1540	272	Umbellularia califor	8.6	Good	Good	Fair	No	0
12	13012	Quercus garryana	15.3	Fair	Fair	Fair	Yes	5
14	13014	Umbellularia californica	12.2	Fair	Fair	Fair	Yes	3
23	13023	Umbellularia californica	12.6	Fair	Good	Fair	Yes	3
24	13024	Umbellularia californica	17.6	Fair	Fair	Fair	Yes	3
30	13030	Umbellularia californica	33.5	Fair	Fair	Good	Yes	3
38	13038	Umbellularia californica	26.2	Fair	Fair	Poor	Yes	3
40	13040	Umbellularia californica	17.1	Fair	Fair	Fair	Yes	3
41	13041	Umbellularia californica	29	Fair	Fair	Fair	Yes	3
42	13042	Umbellularia californica	20	Fair	Fair	Fair	Yes	3
43	13043	Umbellularia califor	14	Fair	Fair	Fair	Yes	3
44	13044	Umbellularia califor	52.9	Fair	Good	Fair	Yes	3
45	13045	Umbellularia californica	53.8	Fair	Good	Fair	Yes	3
46	13046	Umbellularia califor	100	Fair	Fair	Fair	Yes	3
47	13047	Umbellularia califor	17.4	Fair	Fair	Fair	Yes	3
48	13048	Umbellularia californica	12.3	Fair	Fair	Fair	Yes	3
50	13050	Quercus agrifolia	22	Fair	Good	Fair	Yes	5
66	13066	Umbellularia californica	19.9	Fair	Good	Fair	Yes	3
73	13073	Umbellularia californica	48.5	Good	Good	Good	Yes	3
129	13129	Quercus agrifolia	22.8	Fair	Fair	Fair	Yes	5
130	13130	Quercus agrifolia	13.7	Good	Good	Fair	Yes	5
134	13134	Quercus agrifolia	12.6	Poor	Poor	Poor	Yes	5
135	13135	Quercus agrifolia	25.3	Fair	Fair	Fair	Yes	5
140	13140	Quercus agrifolia	24.8	Good	Good	Good	Yes	5
145	13145	Umbellularia californica	19.9	Good	Good	Good	Yes	3
558	10558	Quercus agrifolia	36.5	Fair	Fair	Fair	Yes	5
722	10722	Quercus agrifolia	12.1	Good	Good	Good	Yes	5
723	10723	Quercus agrifolia	24	Fair	Good	Fair	Yes	5
724	10724	Quercus agrifolia	14.5	Good	Good	Good	Yes	5
725	10725	Quercus agrifolia	12.7	Good	Good	Good	Yes	5
727	10727	Quercus agrifolia	25.8	Fair	Fair	Fair	Yes	5
731	10731	Quercus agrifolia	15.5	Good	Good	Good	Yes	5
732	10732	Quercus agrifolia	12.1	Good	Good	Good	Yes	5
733	10733	Quercus agrifolia	20	Good	Good	Good	Yes	5
734	10734	Quercus agrifolia	38.1	Good	Good	Good	Yes	5
736	10736	Quercus agrifolia	14.1	Fair	Fair	Fair	Yes	5

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WRA ID	CSW ID	Species	DBH (in)	Condition	Health	Structure	Mitigation Required	Mitigation Ratio
737	10737	Quercus agrifolia	31.5	Good	Good	Good	Yes	5
738	10738	Quercus agrifolia	19.3	Good	Good	Good	Yes	5
739	10739	Quercus agrifolia	14.5	Fair	Fair	Fair	Yes	5
740	10740	Quercus agrifolia	12.5	Good	Good	Good	Yes	5
741	10741	Quercus agrifolia	29.9	Good	Good	Fair	Yes	5
759	10759	Umbellularia califor	14.2	Fair	Poor	Fair	Yes	3
764	10764	Quercus agrifolia	32	Good	Good	Good	Yes	5
779	10779	Umbellularia californica	44.5	Good	Good	Good	Yes	3
783	10783	Umbellularia californica	70	Good	Good	Fair	Yes	3
785	10785	Umbellularia californica	31.8	Good	Good	Fair	Yes	3
786	10786	Quercus agrifolia	24.8	Good	Good	Good	Yes	5
787	10787	Quercus agrifolia	38.9	Good	Good	Good	Yes	5
789	10789	Umbellularia californica	41.9	Good	Good	Good	Yes	3
793	10793	Umbellularia californica	44.5	Fair	Fair/Poor	Fair	Yes	3
794	10794	Quercus agrifolia	38.2	Good	Fair	Good	Yes	5
818	10818	Umbellularia californica	17.3	Fair	Fair	Fair	Yes	3
819	10819	Quercus agrifolia	14.5	Good	Good	Good	Yes	5
822	10822	Quercus agrifolia	29.5	Fair/Poor	Fair/Poor	Fair	Yes	5
823	10823	Quercus agrifolia	21.5	Good	Good	Good	Yes	5
824	10824	Quercus agrifolia	26.4	Good	Good	Fair	Yes	5
834	10834	Umbellularia califor	16.8	Fair	Fair	Fair	Yes	3
837	10837	Umbellularia californica	17.1	Fair	Fair	Fair	Yes	3
838	10838	Umbellularia califor	36.3	Fair	Good	Good	Yes	3
839	10839	Quercus agrifolia	19.7	Good	Good	Good	Yes	5
840	10840	Umbellularia califor	23.5	Fair	Good	Fair	Yes	3
842	10842	Umbellularia califor	21.3	Good	Good	Fair	Yes	3
844	10844	Quercus agrifolia	18	Fair	Fair	Fair	Yes	5
845	10845	Quercus agrifolia	15.7	Fair	Fair	Fair	Yes	5
846	10846	Quercus agrifolia	22.8	Fair	Fair	Fair	Yes	5
848	10848	Quercus agrifolia	14.8	Fair	Fair	Fair	Yes	5
849	10849	Quercus agrifolia	24.9	Good	Good	Good	Yes	5
850	10850	Umbellularia califor	13.7	Good	Good	Fair	Yes	3
851	10851	Quercus agrifolia	17.2	Fair	Fair	Fair	Yes	5
852	10852	Umbellularia califor	17.6	Fair	Good	Good	Yes	3
853	10853	Umbellularia califor	43.6	Fair	Good	Good	Yes	3
855	10855	Quercus agrifolia	27.4	Good	Good	Good	Yes	5
856	10856	Umbellularia califor	45.1	Good	Good	Good	Yes	3
857	10857	Umbellularia califor	25.3	Fair	Fair	Fair	Yes	3
858	10858	Quercus agrifolia	20	Fair	Poor	Fair	Yes	5
859	10859	Quercus lobata	20.8	Fair	Fair	Fair	Yes	5
860	10860	Quercus lobata	22	Fair	Fair	Fair	Yes	5
861	10861	Umbellularia califor	17.7	Good	Good	Good	Yes	3
863	10863	Quercus agrifolia	25	Poor	Poor	Fair	Yes	5
864	10864	Umbellularia califor	71.1	Fair	Fair	Fair	Yes	3
865	10865	Umbellularia californica	47.5	Fair	Fair	Fair	Yes	3
866	10866	Umbellularia californica	31.2	Good	Good	Good	Yes	3
867	10867	Umbellularia californica	23.5	Good	Good	Fair	Yes	3
870	10870	Umbellularia californica	53.6	Good	Good	Good	Yes	3
872	10872	Umbellularia californica	24.5	Good	Good	Good	Yes	3
873	10873	Umbellularia californica	16.9	Good	Good	Good	Yes	3
875	10875	Umbellularia californica	36.6	Fair	Fair	Fair	Yes	3
1027	11027	Umbellularia califor	49.7	Fair	Fair	Fair	Yes	3
1029	11029	Umbellularia califor	44.2	Poor	Poor	Poor	Yes	3
1030	11030	Umbellularia califor	40.3	Poor	Poor	Poor	Yes	3
1031	11031	Quercus lobata	30.4	Fair	Good	Poor	Yes	5
1032	11032	Umbellularia califor	44.8	Fair	Good	Fair	Yes	3
1033	11033	Umbellularia califor	13.3	Poor	Poor	Fair	Yes	3
1034	11034	Umbellularia califor	13.8	Fair/Poor	Fair	Fair	Yes	3
1035	11035	Umbellularia califor	13.8	Poor	Poor	Poor	Yes	3
1036	11036	Quercus agrifolia	38	Poor	Poor	Poor	Yes	5
1037	11037	Umbellularia califor	22.7	Fair/Poor	Poor	Good/Fair	Yes	3
1038	11038	Quercus agrifolia	66.2	Fair	Fair	Good/Fair	Yes	5
1039	11039	Quercus agrifolia	27.6	Poor	Fair	Poor	Yes	5
1040	11040	Umbellularia califor	51.8	Poor	Poor	Poor	Yes	3
1041	11041	Umbellularia califor	75	Fair	Good	Fair	Yes	3
1042	11042	Umbellularia califor	27	Fair	Fair	Fair	Yes	3
1043	11043	Quercus lobata	28.9	Fair	Fair	Fair	Yes	5
1044	11044	Umbellularia califor	34.5	Fair	Good	Fair	Yes	3
1046	11046	Umbellularia califor	12.5	Fair	Poor	Fair	Yes	3
1047	11047	Umbellularia califor	13.8	Fair	Poor	Fair	Yes	3



Appendix A - Impacted Trees on Grady Ranch

Grady Ranch Tree Impacts								November 19, 2008	
WRA ID	CSW ID	Species	DBH (in)	Condition	Health	Structure	Mitigation Required	Mitigation Ratio	
1048	11048	Quercus agrifolia	36.4	Good	Good	Fair	Yes	5	
1049	11049	Umbellularia califor	14	Poor	Fair	Poor	Yes	3	
1050	11050	Umbellularia califor	13	Fair	Fair	Fair	Yes	3	
1051	11051	Quercus agrifolia	22.3	Poor	Fair	Poor	Yes	5	
1052	11052	Umbellularia califor	17.2	Fair	Fair	Good	Yes	3	
1053	11053	Umbellularia califor	50.8	Fair	Fair	Fair	Yes	3	
1054	11054	Quercus agrifolia	32.5	Fair	Fair	Fair	Yes	5	
1055	11055	Umbellularia califor	16.2	Poor	Poor	Poor	Yes	3	
1056	11056	Quercus agrifolia	24.9	Good	Good	Fair	Yes	5	
1057	11057	Quercus agrifolia	27	Poor	Poor	Poor	Yes	5	
1058	11058	Quercus agrifolia	34.2	Fair	Fair	Poor	Yes	5	
1059	11059	Quercus agrifolia	12.7	Fair/Poor	Fair	Poor	Yes	5	
1060	11060	Quercus agrifolia	28.3	Fair	Fair	Fair	Yes	5	
1061	11061	Quercus agrifolia	13.1	Fair	Fair	Fair/Poor	Yes	5	
1062	11062	Umbellularia califor	35.9	Poor	Fair	Fair/Poor	Yes	3	
1063	11063	Umbellularia califor	46.8	Fair	Fair	Fair	Yes	3	
1065	11065	Umbellularia califor	34.7	Fair	Fair	Poor	Yes	3	
1066	11066	Umbellularia califor	48.3	Fair	Fair	Fair/Poor	Yes	3	
1067	11067	Umbellularia califor	30	Fair	Fair	Fair/Poor	Yes	3	
1068	11068	Umbellularia califor	45.3	Fair	Fair	Fair	Yes	3	
1069	11069	Umbellularia califor	45.3	Fair	Fair	Fair	Yes	3	
1072	11072	Umbellularia califor	30.3	Fair	Fair	Fair	Yes	3	
1073	11073	Umbellularia califor	39.3	Fair	Fair	Fair	Yes	3	
1074	11074	Umbellularia califor	36.2	Good	Good	Good	Yes	3	
1075	11075	Umbellularia califor	17.5	Good	Fair	Fair	Yes	3	
1076	11076	Umbellularia califor	12	Good/Fair	Fair	Good	Yes	3	
1077	11077	Umbellularia califor	52.5	Fair	Fair	Good	Yes	3	
1078	11078	Umbellularia califor	34.8	Fair	Fair	Fair	Yes	3	
1079	11079	Umbellularia califor	26.6	Fair	Fair	Poor	Yes	3	
1081	11081	Umbellularia califor	32	Poor	Fair	Poor	Yes	3	
1083	11083	Umbellularia califor	48.6	Poor	Fair	Poor	Yes	3	
1085	11085	Umbellularia califor	22.8	Fair	Fair	Poor	Yes	3	
1086	11086	Umbellularia califor	34.5	Fair	Fair	Fair	Yes	3	
1088	11088	Umbellularia califor	30.9	Fair	Fair	Fair	Yes	3	
1089	11089	Quercus lobata	37.4	Good	Fair	Fair	Yes	5	
1094	11094	Quercus agrifolia	18.9	Fair	Fair	Poor	Yes	5	
1095	11095	Quercus garryana	31.6	Fair	Fair	Fair	Yes	5	
1096	11096	Umbellularia californica	51.7	Fair	Fair	Fair	Yes	3	
1097	11097	Quercus lobata	22.2	Fair	Fair	Fair	Yes	5	
1098	11098	Quercus lobata	47.4	Good	Good	Fair	Yes	5	
1100	11100	Umbellularia califor	55.8	Fair	Fair	Fair	Yes	3	
1101	11101	Umbellularia califor	24.9	Fair	Fair	Fair	Yes	3	
1103	11103	Umbellularia califor	45.9	Fair	Fair	Fair	Yes	3	
1104	11104	Umbellularia califor	55.8	Fair	Fair	Fair	Yes	3	
1105	11105	Umbellularia califor	49.9	Fair	Fair	Fair	Yes	3	
1106	11106	Umbellularia califor	13.6	Fair	Fair	Fair	Yes	3	
1107	11107	Umbellularia califor	48.4	Fair	Fair	Fair	Yes	3	
1108	11108	Quercus lobata	40.6	Fair	Fair	Fair	Yes	5	
1109	11109	Umbellularia califor	20.8	Good	Good	Good	Yes	3	
1110	11110	Umbellularia califor	17.4	Fair	Fair	Fair/Poor	Yes	3	
1111	11111	Umbellularia califor	34.1	Good	Good	Good	Yes	3	
1113	11113	Umbellularia califor	17.3	Good	Good	Good	Yes	3	
1114	11114	Umbellularia califor	26.3	Fair	Fair	Fair	Yes	3	
1115	11115	Umbellularia califor	38.3	Fair	Fair	Fair	Yes	3	
1116	11116	Umbellularia califor	33.4	Fair	Poor	Fair	Yes	3	
1119	11119	Umbellularia califor	20.5	Fair	Fair	Poor	Yes	3	
1120	11120	Umbellularia califor	13.5	Fair	Fair	Fair	Yes	3	
1121	11121	Umbellularia califor	24.2	Good	Good	Fair	Yes	3	
1122	11122	Umbellularia califor	28.9	Fair	Fair	Fair	Yes	3	
1124	11124	Umbellularia califor	25	Fair	Fair	Poor	Yes	3	
1125	11125	Umbellularia califor	51.1	Fair	Fair	Fair	Yes	3	
1127	11127	Umbellularia califor	23.8	Poor	Fair	Fair	Yes	3	
1128	11128	Umbellularia califor	13.6	Fair	Fair	Fair	Yes	3	
1129	11129	Umbellularia califor	26	Fair	Fair	Fair	Yes	3	
1130	11130	Umbellularia califor	34.3	Good	Good	Fair	Yes	3	
1131	11131	Umbellularia califor	39.8	Good	Good	Good	Yes	3	
1133	11133	Umbellularia califor	20	Fair	Fair	Fair	Yes	3	
1134	11134	Umbellularia califor	36.9	Fair	Fair	Poor	Yes	3	
1135	11135	Umbellularia californica	34.2	Fair	Fair	Fair	Yes	3	
1136	11136	Umbellularia californica	41.9	Fair	Fair	Fair	Yes	3	

Appendix A - Impacted Trees on Grady Ranch

Grady Ranch Tree Impacts		November 19, 2008						
WRA ID	CSW ID	Species	DBH (in)	Condition	Health	Structure	Mitigation Required	Mitigation Ratio
1137	11137	Umbellularia californica	30.8	Fair	Fair	Fair	Yes	3
1138	11138	Umbellularia californica	39	Fair	Fair	Fair	Yes	3
1139	11139	Umbellularia californica	34.5	Fair	Good	Fair	Yes	3
1142	11142	Umbellularia californica	14.4	Fair	Fair	Fair	Yes	3
1144	11144	Umbellularia californica	39.1	Good	Good	Good	Yes	3
1145	11145	Quercus agrifolia	30.2	Fair	Fair	Poor	Yes	5
1154	11154	Umbellularia californica	44.1	Fair	Poor	Fair	Yes	3
1155	11155	Umbellularia californica	25.9	Fair	Fair	Fair	Yes	3
1156	11156	Umbellularia californica	24.4	Fair	Fair	Fair	Yes	3
1157	11157	Umbellularia califor	36.9	Fair	Fair	Fair	Yes	3
1160	11160	Umbellularia califor	28.5	Fair	Fair	Fair	Yes	3
1161	11161	Umbellularia califor	60.1	Fair	Good	Fair	Yes	3
1165	11165	Umbellularia califor	24.4	Fair	Fair	Fair	Yes	3
1166	11166	Umbellularia califor	41	Fair	Fair	Fair	Yes	3
1167	11167	Umbellularia californica	47.4	Fair	Fair	Fair	Yes	3
1181	11181	Umbellularia californica	35.6	Fair	Good	Fair	Yes	3
1182	11182	Umbellularia californica	38.8	Good	Good	Good	Yes	3
1183	11183	Umbellularia californica	13.4	Good	Good	Good	Yes	3
1184	11184	Umbellularia californica	49.4	Fair	Good	Fair	Yes	3
1185	11185	Umbellularia californica	63.2	Good	Good	Good	Yes	3
1186	11186	Umbellularia califor	85.8	Poor	Poor	Good	Yes	3
1187	11187	Umbellularia californica	47.7	Good	Good	Good	Yes	3
1234	11234	Umbellularia californica	14.4	Fair	Fair	Poor	Yes	3
1247	11247	Umbellularia californica	16.9	Poor	Fair	Poor	Yes	3
1249	11249	Umbellularia califor	18	Fair	Fair	Fair	Yes	3
1250	11250	Umbellularia californica	33.4	Good/Fair	Good	Fair	Yes	3
1252	11252	Aesculus californica	37	Fair	Fair	Poor	Yes	3
1273	11273	Aesculus californica	17.4	Fair	Fair	Fair	Yes	3
1274	11274	Aesculus californica	35.6	Fair	Good	Fair	Yes	3
1278	11278	Quercus agrifolia	46.9	Fair	Good	Poor	Yes	5
1281	11281	Umbellularia californica	33.3	Fair	Good	Poor	Yes	3
1297	11297	Quercus agrifolia	15.7	Fair	Fair	Poor	Yes	5
1308	11308	Umbellularia californica	13.6	Poor	Poor	Poor	Yes	3
1309	11309	Umbellularia californica	35.7	Good	Good	Good	Yes	3
1310	11310	Umbellularia californica	22.2	Good	Good	Fair	Yes	3
1311	11311	Umbellularia californica	126	Good	Good	Good	Yes	3
1315	11315	Umbellularia californica	54.5	Good	Good	Fair	Yes	3
1327	11327	Quercus agrifolia	51.2	Fair	Fair	Fair	Yes	5
1328	11328	Umbellularia califor	24	Fair	Fair	Fair	Yes	3
1329	11329	Quercus agrifolia	36.8	Fair	Fair	Fair	Yes	5
1331	11331	Umbellularia californica	41.9	Good	Good	Fair	Yes	3
1345	11345	Umbellularia californica	40.2	Fair	Fair	Fair	Yes	3
1355	11355	Quercus agrifolia	31.2	Fair	Fair	Poor	Yes	5
1356	11356	Quercus agrifolia	37	Fair	Good	Fair	Yes	5
1357	11357	Quercus agrifolia	26.4	Fair	Poor	Fair	Yes	5
1361	11361	Quercus agrifolia	39.3	Fair	Good	Fair	Yes	5
1362	11362	Umbellularia californica	30.8	Good	Good	Good	Yes	3
1364	11364	Quercus agrifolia	20.7	Good	Good	Good	Yes	5
1365	11365	Umbellularia californica	20	Fair	Fair	Fair	Yes	3
1383	1383	Quercus agrifolia	18.6	Fair	Fair	Fair	Yes	5
1384	1384	Umbellularia califor	15.5	Fair	Fair	Fair	Yes	3
1385	1385	Quercus agrifolia	13.1	Fair	Fair	Fair	Yes	5
1396	1396	Umbellularia califor	68.9	Fair	Good	Fair	Yes	3
1398	1398	Quercus agrifolia	31.4	Fair	Fair	Fair	Yes	5
1403	0	Aesculus californica	22.6	Fair	Fair	Fair	Yes	3
1404	0	Umbellularia califor	14.1	Poor	Fair	Poor	Yes	3
1405	223	Umbellularia califor	102	Good	Good	Good	Yes	3
1407	221	Umbellularia califor	96.2	Good	Good	Fair	Yes	3
1408	222	Umbellularia califor	53.9	Good	Good	Fair	Yes	3
1410	259	Umbellularia califor	14.1	Good	Good	Fair	Yes	3
1411	257	Umbellularia califor	51.3	Good	Good	Fair	Yes	3
1414	250	Umbellularia califor	45.6	Good	Good	Fair	Yes	3
1416	253	Aesculus californica	14.1	Fair	Fair	Fair	Yes	3
1417	254	Quercus lobata	33	Fair	Fair	Good	Yes	5
1431	0	Quercus agrifolia	16.1	Good	Good	Good	Yes	5
1432	4193	Salix lasiolepus	30	Fair	Good	Poor	Yes	3
1433	4244	Salix lasiolepus	14	Good	Good	Poor	Yes	3
1435	0	Aesculus californica	42	Good	Good	Fair	Yes	3
1436	0	Quercus agrifolia	13.8	Fair	Good	Poor	Yes	5
1437	0	Quercus agrifolia	31.3	Good	Good	Poor	Yes	5

Appendix A - Impacted Trees on Grady Ranch



Grady Ranch Tree Impacts

November 19, 2008

WRA ID	CSW ID	Species	DBH (in)	Condition	Health	Structure	Mitigation Required	Mitigation Ratio
1440	0	Populus fremontii	15.4	Good	Good	Good	Yes	3
1444	117	Umbellularia califor	66.5	Good	Good	Good	Yes	3
1445	4187	Umbellularia califor	13.1	Good	Good	Good	Yes	3
1449	4049	Umbellularia califor	54.3	Good	Good	Good	Yes	3
1450	4050	Umbellularia califor	38	Good	Good	Good	Yes	3
1453	4053	Acer macrophyllum	27.4	Good	Good	Fair	Yes	3
1454	4054	Quercus agrifolia	77.2	Good	Fair	Fair	Yes	5
1457	4057	Aesculus californica	18	Good	Good	Good	Yes	3
1458	4058	Acer macrophyllum	33.7	Good	Good	Good	Yes	3
1463	4188	Fraxinus latifolia	30	Good	Good	Poor	Yes	3
1465	4191	Umbellularia califor	13	Good	Good	Poor	Yes	3
1466	4190	Umbellularia califor	42	Good	Good	Fair	Yes	3
1467	4179	Quercus agrifolia	17.2	Good	Good	Good	Yes	5
1468	4178	Umbellularia califor	22	Good	Good	Poor	Yes	3
1469	4177	Umbellularia califor	18	Fair	Good	Good	Yes	3
1470	4192	Umbellularia califor	24	Good	Good	Good	Yes	3
1471	4171	Umbellularia califor	120	Fair	Good	Fair	Yes	3
1473	135	Aesculus californica	16.8	Good	Good	Poor	Yes	3
1474	134	Umbellularia califor	34	Good	Good	Poor	Yes	3
1476	131	Umbellularia califor	90	Good	Good	Fair	Yes	3
1477	130	Umbellularia califor	80.7	Good	Good	Fair	Yes	3
1478	129	Umbellularia califor	68.9	Good	Good	Fair	Yes	3
1479	0	Umbellularia califor	30	Good	Good	Poor	Yes	3
1481	0	Umbellularia califor	150	Good	Good	Poor	Yes	3
1482	4082	Umbellularia califor	42.8	Good	Good	Fair	Yes	3
1483	0	Umbellularia califor	80	Good	Good	Poor	Yes	3
1484	0	Umbellularia califor	15.2	Good	Fair	Good	Yes	3
1487	4087	Umbellularia californica	24.1	Fair	Good	Poor	Yes	3
1488	0	Umbellularia califor	21	Good	Good	Fair	Yes	3
1489	0	Umbellularia califor	16	Poor	Fair	Poor	Yes	3
1491	0	Sambucus Mexicana	28.5	Fair	Good	Poor	Yes	3
1492	0	Umbellularia califor	12	Good	Good	Good	Yes	3
1494	0	Umbellularia califor	50	Good	Good	Poor	Yes	3
1495	0	Umbellularia califor	25	Good	Good	Poor	Yes	3
1496	0	Sambucus Mexicana	14	Good	Fair	Good	Yes	3
1498	0	Umbellularia califor	40	Good	Good	Good	Yes	3
1499	4099	Umbellularia californica	64.3	Fair	Fair	Fair	Yes	3
1501	4169	Umbellularia califor	83.4	Good	Good	Good	Yes	3
1508	4156	Quercus agrifolia	37.6	Fair	Fair	Fair	Yes	5
1509	4157	Quercus agrifolia	44.6	Good	Good	Good	Yes	5
1510	4160	Quercus agrifolia	16.6	Fair	Fair	Good	Yes	5
1511	4159	Quercus agrifolia	24.5	Poor	Poor	Poor	Yes	5
1512	4158	Quercus agrifolia	28.7	Good	Fair	Fair	Yes	5
1513	200	Umbellularia califor	51	Fair	Good	Fair	Yes	3
1514	202	Umbellularia califor	48.1	Fair	Fair	Fair	Yes	3
1515	201	Umbellularia califor	17.5	Good	Good	Good	Yes	3
1516	203	Umbellularia califor	80.3	Fair	Fair	Fair	Yes	3
1517	204	Umbellularia califor	26.1	Fair	Fair	Fair	Yes	3
1519	226	Umbellularia califor	25.5	Fair	Fair	fair	Yes	3
1520	248	Umbellularia califor	39.5	Fair	Fair	Fair	Yes	3
1521	247	Quercus agrifolia	28.3	Good	Good	Good	Yes	5
1522	263	Umbellularia califor	22.3	Good	Good	Good	Yes	3
1524	267	Umbellularia califor	102.6	Good	Good	Good	Yes	3
1525	268	Aesculus californica	13.4	Good	Good	Good	Yes	3
1526	0	Aesculus californica	15	Good	Good	Good	Yes	3
1527	0	Umbellularia califor	35.7	Good	Good	Fair	Yes	3
1528	269	Umbellularia califor	70	Good	Good	Poor	Yes	3
1530	0	Umbellularia califor	18.8	Good	Good	Good	Yes	3
1532	0	Quercus agrifolia	18.2	Fair	Fair	Fair	Yes	5
1535	0	Aesculus californica	25.2	Fair	Fair	Fair	Yes	3
1539	274	Umbellularia califor	14	Good	Good	Fair	Yes	3
Total Trees Requiring Mitigation and Number of Replacement Trees							306	1231