Fulcrum App - Tree Risk Assessment Tool

New Utility Vegetation Management Tree Risk Assessment Tool

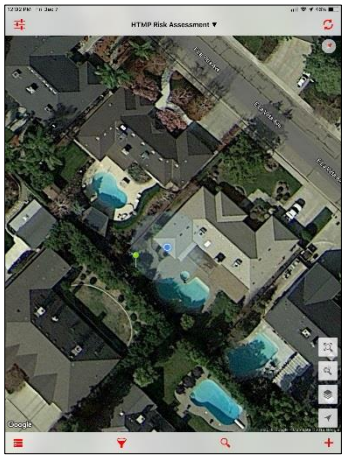
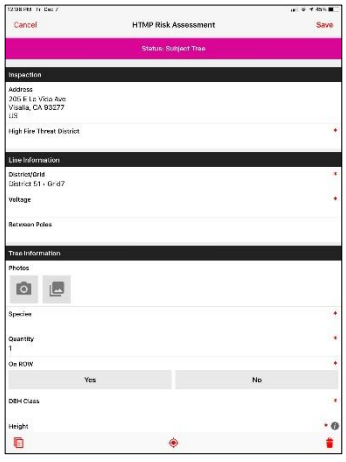
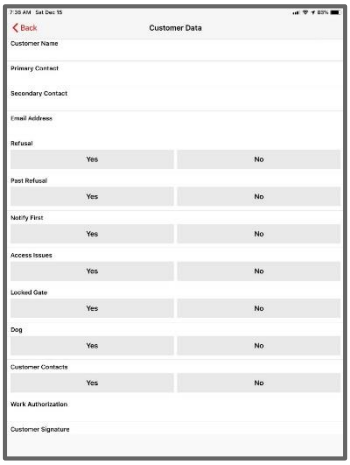
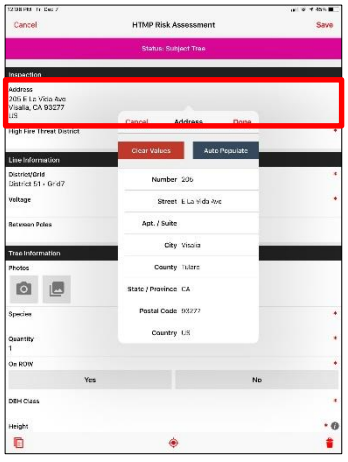
Hazard Tree characteristics that consider tree attributes and site attributes help indicate possible hazardous conditions posed on our equipment. These characteristics, of tree and site, are used to risk rank a Subject Tree. Both tree and site attributes may impact the stability of a tree and should be considered when performing a tree risk assessment. Information collected during a tree risk assessment will be captured on the Tree Risk Assessment Form and be submitted to Vegetation Management Compliance & Support (VMC&S) team. The assessment results will be captured in the Work Management System in order to track and manage the prescribed work or other mitigation.

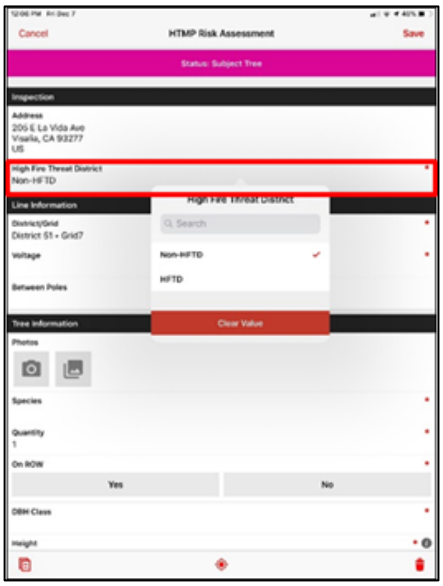
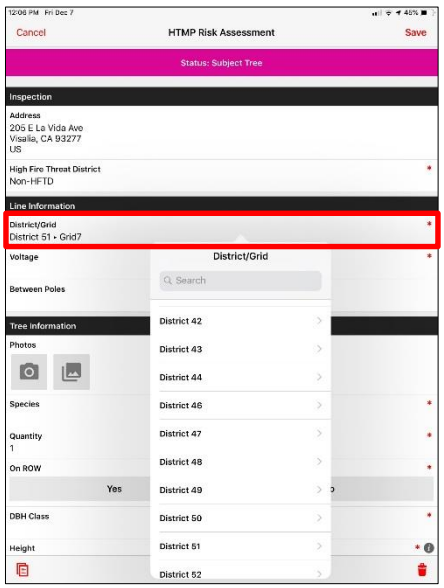
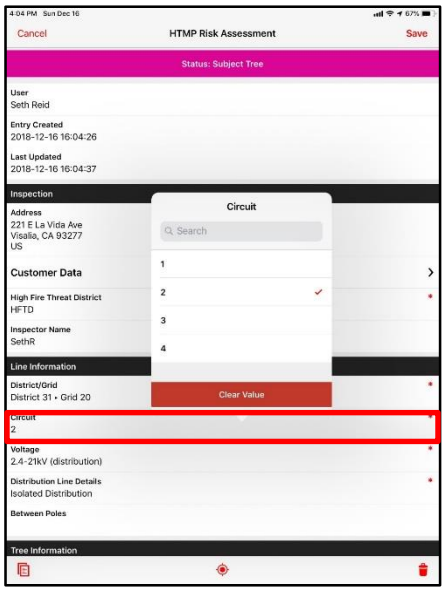
How the Tree Risk Assessment Data will be accessed / exchanged:

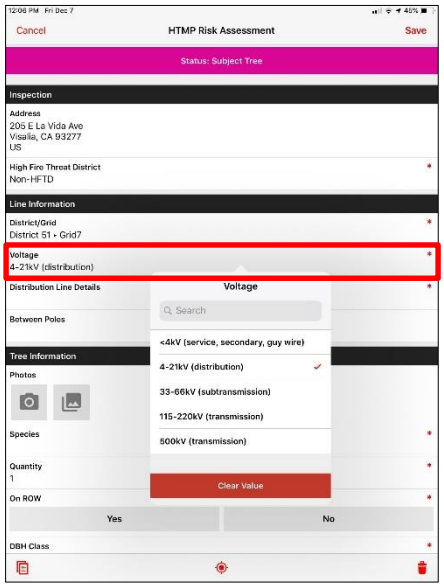
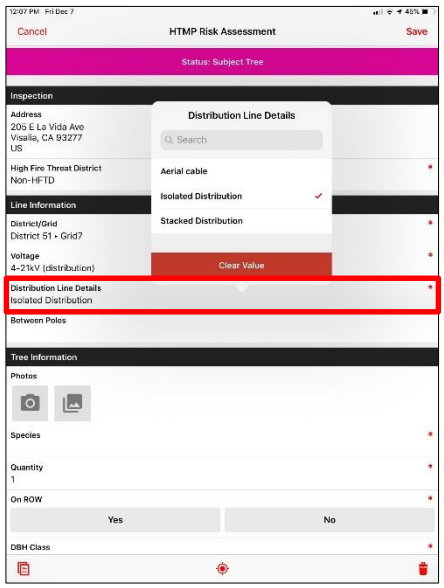
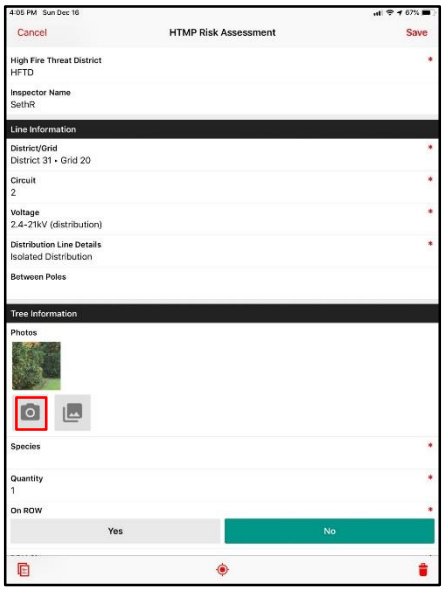
Field personnel will use a Fulcrum app on an iOS device. A daily extract file will be provided to VMC&S department from Fulcrum. VMC&S will update the Work Management System with the hazard data identified (tree characteristics and location information) in Fulcrum.
Fulcrum will be used as an assessment tool and transaction system. The transactional data will be updated into the VM Work Management System as the system of record.

How to Use the Fulcrum App:

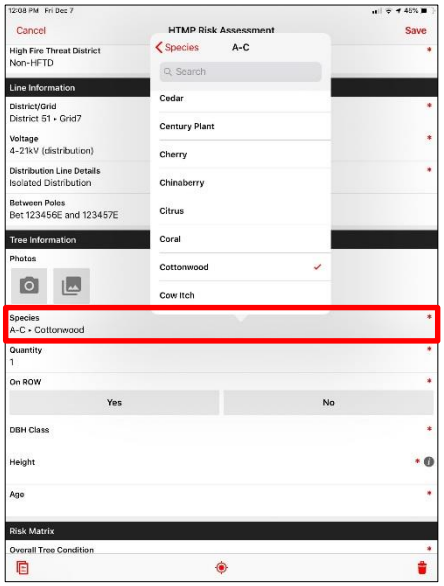
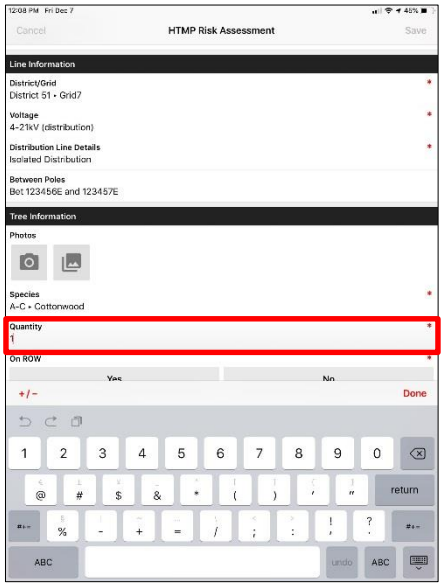
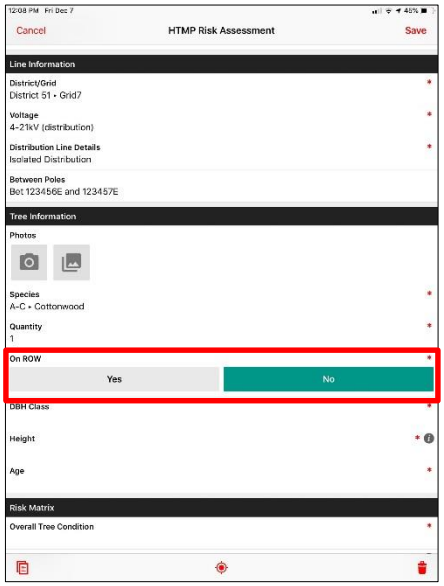
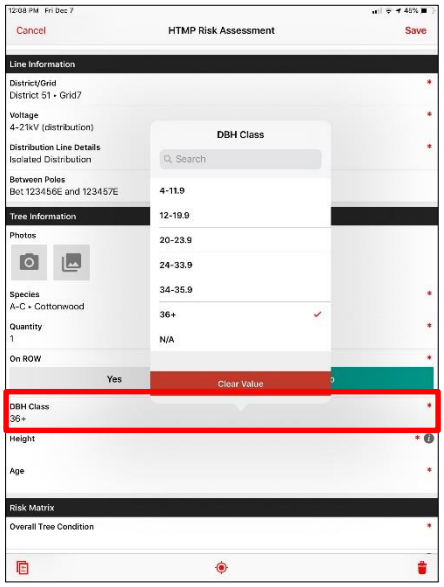
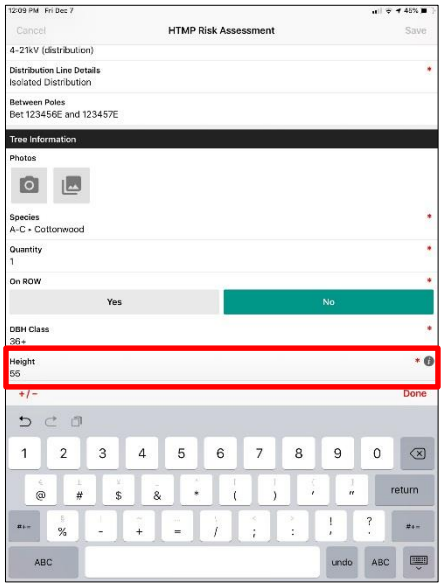
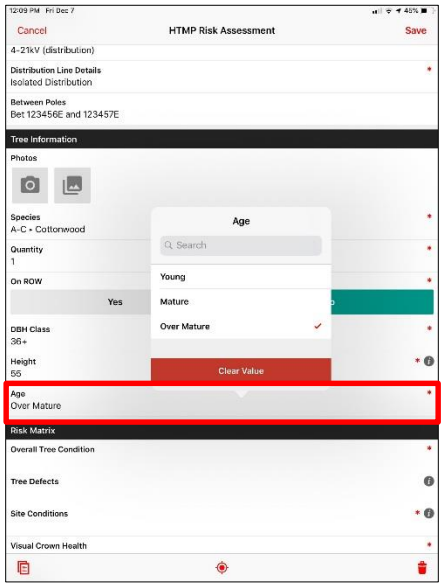
To aide in the determination of the likelihood of tree failure, the Fulcrum based Tree Risk Assessment App was developed to help users identify the risk based on critical information. Depending on how you answer the questions, the tool will calculate a risk rank score, and suggested priority. *(* red star is a mandatory field)*

Inspection Information			
1. Hit the + button to start record	2. Blank record with prefabbed address and last grid inspected	3. Enter customer data if applicable	4. Enter address
			

Inspection Information	Line Information	
4. Indicate whether or not it's a High Fire Threat District	6. Select district or grid from the drop down list	7. Select circuit from the drop down list
		

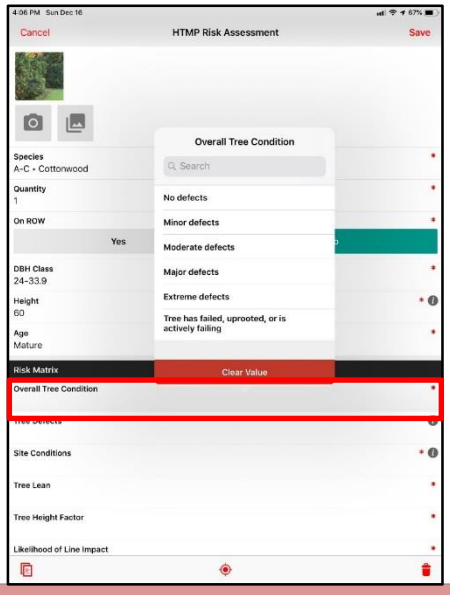
Line Information		
8. Select voltage classification	9. Select construction type	10. Select the photo icon to take pictures of the tree and/or tree defects
		

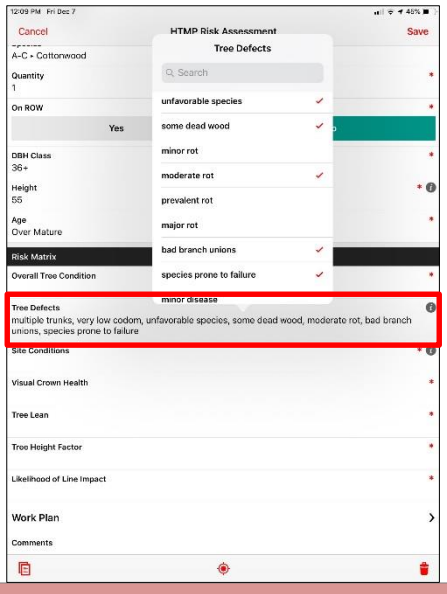
Tree Information

11. Identify Tree species classification (alphabetical order of common name)	12. Tree quantity	13. Indicate whether or not it's on or off ROW
		
14. DBH classification that fits routine, BB, DRI	**15. Manually enter tree height**	**16. Tree Age (first component that is scored in the overall risk score)**
		

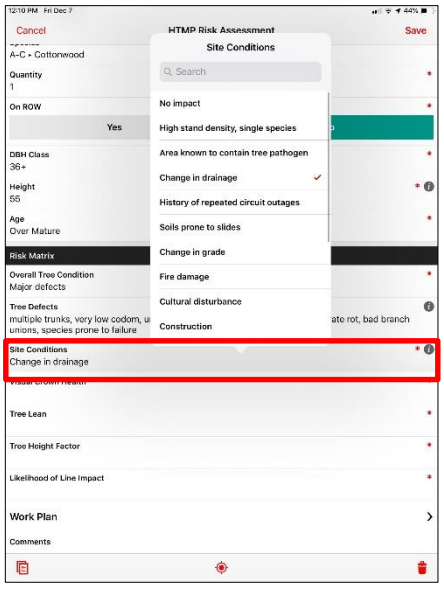
Tree Information (cont.)	Risk Matrix	
17. Descriptions of overall tree conditions	18. Assess the overall tree condition and score it appropriately	19. Identify the tree defects (not part of the overall score unless all tree defect scores add up to a higher score than the overall tree condition score)

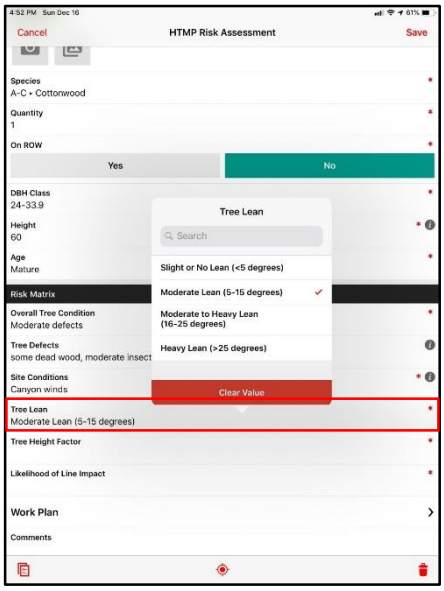
Tree Conditions (cumulative)
No defects
Minor defects (small codom top, nuisance insect/mistletoe infestation, unfavorable species)
Moderate defects (moderate rot, epicormic sprouts, large codom top, multiple trunks, severe insect/mistletoe infestation, early stages of serious disease, exposed roots, some minor or moderate defects that have an additive effect)
Major defects (crack in trunk, prevalent rot, history of branch/trunk failure, codominant, prevalent signs of serious disease, several minor and/or moderate defects)
Extreme defects (major cracks in trunk, serious exposed roots, major rot, severely diseaseed, and/or many defects that have an additive effect)
Tree has failed, uprooted, or is currently failing/uprooting and requires immediate attention

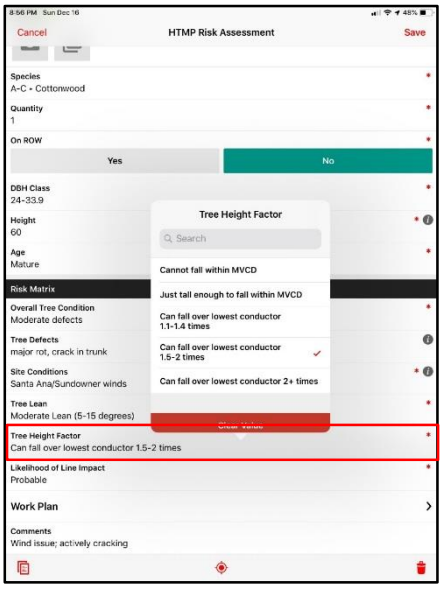




Risk Matrix		
20. Worst site condition present at location (scored in the overall risk score; Lowest score at the top of the list and Highest score at the bottom of the list)	21. Tree Lean (scored in the overall risk score)	22. Tree Height Factor (scored in the overall risk score)

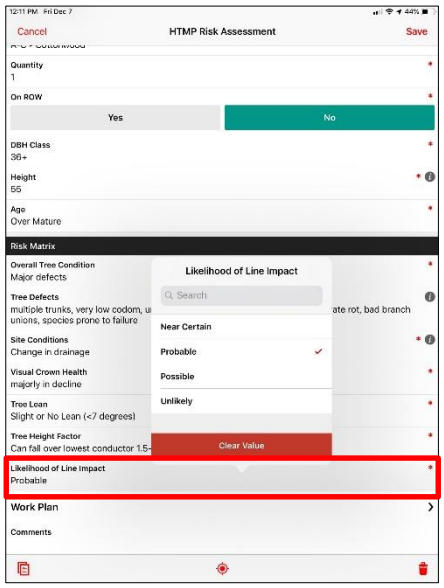






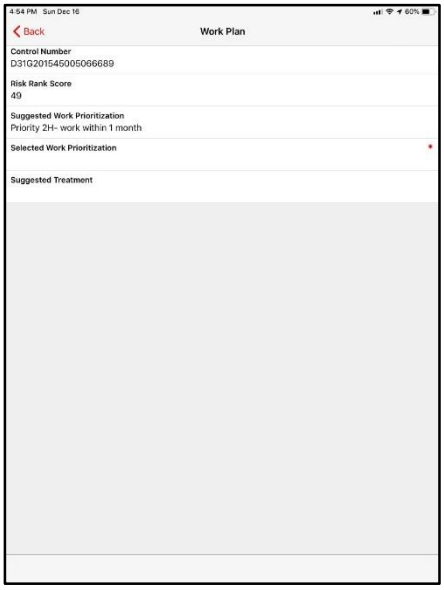
Risk Matrix (cont.)

23. Likelihood of Line Impact (scored in the overall risk score)

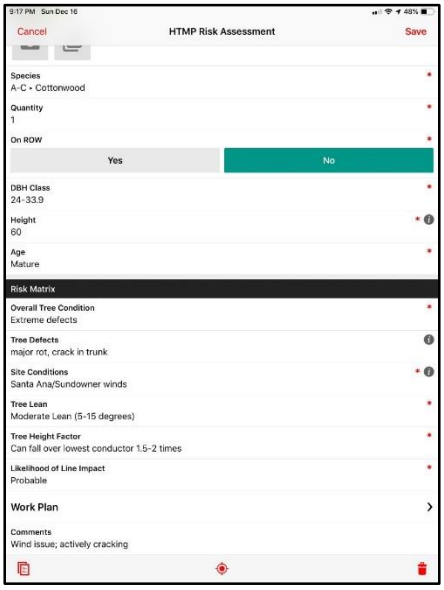


Work Plan

24. Work Plan Window (Auto Generated: control number, risk rank score, and suggested priority)

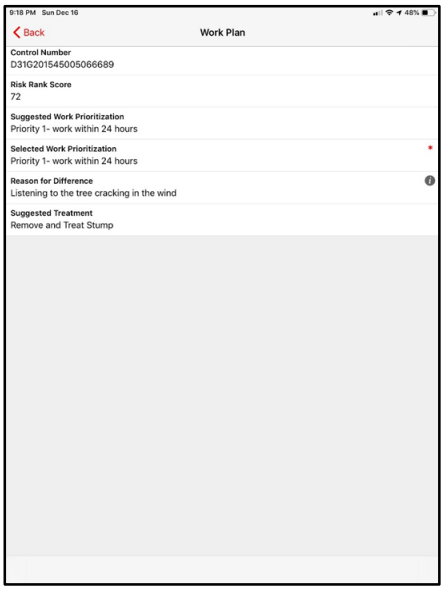


25. **EXAMPLE**: Changing a couple of the dropdown selections changes the score

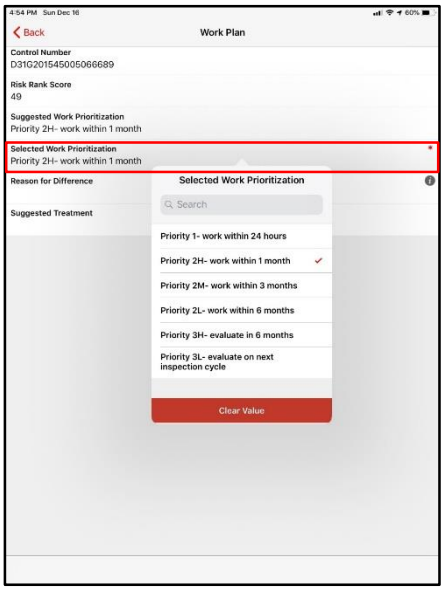


Work Plan

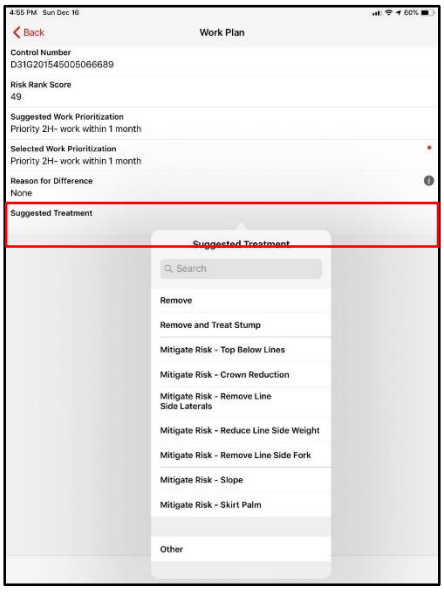
26. **EXAMPLE**: Same control number, different risk rank score, and different suggested priority (Auto Generated)



27. Select a work priority based on the suggested work priority and assessment (specify reason for change – if applicable)



28. Assign an appropriate treatment to mitigate or remove the risk



Work Plan		
29. Select tree Status	30. Enter any important comment or additional information	31. Use the target feature to change GPS coordinates of the tree