MEMORANDUM REPORT

DATE: January 21, 2025

TO: Board of Commissioners of the Los Altos Hills County Fire District

FROM: Magdalena-Eastbrook Project Team,

A Harmon, Field Manager

Eugenia Woods, Programs, Planning and Grants Manager

SUBJECT: Magdalena-Eastbrook Evacuation Route Project Final Reports

RECOMMENDATION: Receive Magdalena-Eastbrook Evacuation Route Project Final Reports

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BACKGROUND

The Los Altos Hills County Fire District (LAHCFD) 2023-2027 Strategic Plan (Attachment 1) emphasizes the importance of prevention, protection, and community resiliency. As outlined in Strategic Goals "1. Prevention, Protection, Resiliency" the District is committed to funding, developing, and maintaining programs that protect life and property while enhancing safety to build a resilient community. A key initiative under this goal is the Evacuation Route Hardening program.

The Integrated Hazardous Fuel Reduction (IHFR) programs, identified in the LAHCFD Chart of Services (Attachment 2), include Community-Focused Evacuation Route Hardening projects. These programs are grounded in fire science, the LAHCFD Community Wildfire Protection Plan (CWPP) Annex 4, and the District's annual budget allocations. The IHFR projects aim to improve community resiliency, educate residents, and mitigate fire hazards.

In alignment with LAHCFD Strategic Plan Goals, the District has identified fire risk areas and initiated collaborative efforts with regional partners, including the Santa Clara County FireSafe Council and the Santa Clara County Central Fire Protection District (County Fire or Fire Department). These projects focus on reducing hazardous roadside vegetation along major transportation corridors such as Page Mill Road (Phases I and II), Moody/El Monte Roads, Altamont Road, Arastradero Road, Robleda/Burk Roads, and now, the Magdalena-Eastbrook Project. The primary objective of these evacuation routes and road hardening projects is to enhance life safety and minimize property loss during wildfires by ensuring safer egress and ingress for both evacuees and emergency responders.

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Situated within the Southern area of the District, the Magdalena-Eastbrook Evacuation route project was prioritized because it will serve as an alternate route for a surrounding portion of the Los Altos Hills community to evacuate and help to avoid traffic congestion in an emergency, making it critical for both egress and ingress. Additionally, the public may need to utilize this route for emergency evacuation on foot during a wildfire.

Information about this project, and other District projects can be found on the Department website at https://www.lahcfd.org/community-projects/.

DISCUSSION

The Magdalena-Eastbrook project has been executed with hazardous fuel reduction treatment using a comprehensive strategy to enhance both immediate safety and long-term community resilience. By addressing hazardous vegetation along the route, the project markedly improves emergency access, facilitating more effective navigation of these critical roadways by residents and first responders, particularly during emergencies such as wildfires. Efforts concentrated on improving visibility at roadway and driveway intersections, as well as at blind corners. In accordance with the Town of Los Altos Hills Municipal Code Title 10, Chapter 1, Article 5, Section 1.507(f)(12), which mandates that "all shrubs and plants shall be pruned to a height not to exceed three (3) feet above the road level at its nearest point in an area bounded by the center line of intersecting roads or easements for vehicular access, public or private, and a straight line joining points on such center lines eighty (80) feet distant from their intersection (see figure). All side limbs of trees in such areas shall be pruned to a height of not less than six (6) feet above the road surface," the project ensured compliance by systematically addressing overgrown vegetation at these critical locations to maintain an unobstructed view of approaching traffic. As a result, the treated areas are both visually appealing and offer significantly improved visibility for travelers.

Beyond immediate safety concerns, the project plays a crucial role in protecting the local ecosystem. By carefully managing vegetation, the Magdalena-Eastbrook project supports the preservation of wildlife habitats, balancing the needs of fire prevention with environmental stewardship. This project also safeguards critical infrastructure, such as power lines and communication networks, which are vital during emergencies and must be protected from potential fire damage.

Another key aspect of the Magdalena-Eastbrook project is its support for recreational activities. The areas treated include access points to popular trails, ensuring these paths remain accessible and safe for both everyday use and emergency evacuations. By proactively managing the landscape, the District can prevent more severe, costly damage in the future, leading to long-term cost savings for both the community and the District.

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The Magdalena-Eastbrook project underscores the significance of regional collaboration by bringing together key partners, including the Santa Clara County FireSafe Council, which served as the project manager and a primary collaborator. This partnership not only enhanced the project's effectiveness but also fostered a shared sense of responsibility among stakeholders, strengthening the community's overall response to wildfire threats. The Santa Clara County FireSafe Council Final Report for the Magdalena-Eastbrook Evacuation Route project, provided as Attachment 3, along with the summary of project costs, highlights the project's success in achieving its primary goal: reducing hazardous fuel to ensure a safer evacuation route. The project has significantly improved community safety by effectively mitigating fire risks along these crucial evacuation corridors.

In addition to physical improvements, the Magdalena-Eastbrook project served as a platform for increasing public awareness and education on project details and fire safety. By engaging the community through mailing content, community webinars, and individual meetings with residents, the District is promoting a culture of preparedness and resilience, encouraging residents to take an active role in protecting their homes and properties.

Overall, the Magdalena-Eastbrook project exemplifies a commitment to sustainable land management practices that prioritize the safety of residents, the protection of property, and the preservation of the natural environment. Through careful planning and execution, the District is ensuring that these critical evacuation routes are not only safer and more efficient but also contribute to the long-term wellbeing of the entire community.

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QUANTITATIVE RESULTS and EXPENSES

The production volume and distance of treatment provide valuable insights into the scope and scale of the work performed.

PROJECT WORK TRACKER

Magdalena - Eastbrook

Total Weeks Worked	Total Days Worked	Treatment Dates
1	1	Monday, November 4, 2024
	2	Tuesday, November 5, 2024
	3	Wednesday, November 6, 2024
	4	Thursday, November 7, 2024
	5	Friday, November 8, 2024
2		

* On day 2 - Work stopped because of a Red Flag warning.
*On day 3 - Red Flag day, no work was permitted

Totals for the Treated Area Per Day

Linear Milage Treated	Linear Footage Treated	Average Depth Treated	Total Square Footage Treated	Total Acreage Treated	Cubic Yards of Chipped Material
2.36	12466.22	14.95	186428.57	4.28	58.00
1.55	8181.45	11.00	90000.00	2.07	28.00
		#DIV/0!			
1.99	10484.52	9.81	102857.14	2.36	32.00
1.59	8400.16	9.18	77142.86	1.77	24.00
7.49	39532.35	<-- Weekly Totals -->	456428.57	10.48	142.00
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		#DIV/0!			
0.00	0.00	<-- Weekly Totals -->	0.00	0.00	0.00

Acreage Information Totals

Total Linear Miles Treated	Total Linear Footage
7.49	39532.35

Average Linear Miles Treated Per Day	Average Linear Footage Treated Per Day
0.75	9883.09

Total Square Footage	Total Square Acerage	Total Cubic Yards
456428.57	10.48	142.00

Average Square Footage Treated Per Day	Average Square Acerage Treated Per Day	Avrage Cubic Yards Per Day
45642.86	1.05	28.40

Costs directly associated with the Magdalena-Eastbrook Evacuation Route Project include:

Magdalena-Eastbrook Evacuation Route

Project Cost Breakdown

Service Description	Contractor	Completed	Amount	Notes
IHFR Project Management	SCC FireSafe Council	Sept, Oct & Nov 2024	18,827.62	(Some payroll notes combined with Arastradero, so I just divided by 2 and split between projects)
Personnel Mileage	SCC FireSafe Council	Oct. 2024	680.05	(This mileage might include upcoming project work)
Project Supplies	SCC FireSafe Council			
Project Supplies Reimbursement (LAHCFD)	Eugenia		52.50	County Clerk Fee
Traffic Control Plan	City Rise	Aug & Oct 2024	1,232.00	$500 + $600 (revision charge) + 12% uplift
Traffic Control Contractor	City Rise	Nov-24	19,023.76	$16,985.50 + 12% uplift
Fuel Reduction	Denali	Nov-24	76,479.20	$68,285 + 12% uplift
Biological Survey			5,000.00	
Postcard, Cover Letters, & ROE Mailers	Folger Graphics	Sept & Oct 2024	1,152.13	
Pre-Project UAS Flyover/Data	Jackson Ricketts	July & Aug 2024	6,350.00	July = Mag-Sunhill / Aug = Mag-Eastbrook / Sept = Sunhill-Eastbrrok
Post-Project UAS Flyover/Data	Jackson Ricketts	Dec-24	2,900.00	
Total Project Cost			**131,697.26**	

Successes

- Efficient deployment of Unmanned Aircraft Systems (UAS) for image telemetry. "JACKSONS DRONES" was engaged to deliver aerial imagery, delineate treatment areas, and provide quantitative assessments of hazardous fuel reduction. (Attachment 4)

- With support from County Counsel, the project team achieved CEQA compliance by filing a Notice of Exemption (NOE) with the Office of the Santa Clara County Clerk and the State Clearing House. This process informed the public of the proposed mitigation work, allowed for public feedback, and provided time to address any concerns before project initiation. No concerns were raised, and the project proceeded as scheduled.

- The Magdalena-Eastbrook Evacuation Route project enhanced and refined the staff's expertise, contributing to the improvement of future evacuation road projects. Upcoming initiatives will prioritize increased community input to better inform the design of future evacuation routes.

Community Outreach

The LAHCFD staff actively promoted the Magdalena-Eastbrook Evacuation Route project and other District programs through a variety of outreach activities:

1. **Direct Mail**: Letters were sent to all property owners along the project route, inviting them to inquire about and participate in the vegetation management efforts.
2. **On-Site Engagement**: Staff conducted on-site visits, engaging with residents directly through door-to-door outreach. They provided information about the project, requested Rights of Entry (ROE), and promoted other District programs.
3. **Public Notices**: Sandwich board signs were strategically placed at key entry points to the project area two weeks prior to commencement, alerting hikers, bikers, and motorists about the upcoming work.
4. **Community Interactions**: Staff engaged in spontaneous interactions with the community, using these opportunities to educate residents about the project and other District services.
5. **Interactive Webinar**: An interactive community webinar was hosted, allowing residents to attend, learn about the project, and ask questions directly to project staff.

Throughout these outreach efforts, the staff received recognition and gratitude from the community and partner agencies for the project's contribution to public safety.

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Insights & Lessons Learned

- The newly implemented best practice requires the project lead and FSC project manager to review the project and anticipated traffic control concerns with the traffic control field crew supervisor prior to the project's commencement. This process has proven effective in minimizing coordination issues related to traffic control and safety.
- In certain situations, it is beneficial to leave larger logs on the ground in stable positions where they are unlikely to roll downhill. These larger pieces do not pose the same fire risk as smaller, more flammable materials, as they have a lower ignition potential. Their decomposition serves important ecological functions, including recycling nutrients back into the soil, which supports plant growth, and providing habitat for amphibians, small reptiles, and other small creatures essential to the local food web in natural areas and wildland-urban interfaces.

- Daily briefings with field operation crews are crucial. Once a project gains momentum, it is essential to pause and review the scope of work, safety procedures, and daily objectives to ensure alignment and maintain safety and efficiency.
- Trash accumulation is an unfortunate reality of any project. However, removal is both healing and beautifying for the area. A special thanks goes to the Town of Los Altos Hills maintenance department for facilitating access to disposal options, with a significant portion of the discarded materials being recycled.

Note of Appreciation:

The District extends sincere appreciation to the LAHCFD Board of Commissioners, the Fire Department, the Town of Los Altos Hills, the Santa Clara County FireSafe Council, County Roads & Airports, and all contractors, crews, and traffic control personnel for their dedicated support and contributions to the success of the Magdalena-Eastbrook project. Due to the collaboration and coordination between LAHCFD and its partners, the Magdalena-Eastbrook Evacuation Route project was successfully completed, delivering a strategic and high-priority public safety benefit to the community in the event of a wildfire or emergency.

Attachment(s):

1. LAHCFD 2023-2027 Strategic Plan, Goal 1
   (https://www.lahcfd.org/wp-content/uploads/2023/03/LAHCFD-2023-27-Strategic-Plan.pdf)
2. LAHCFD Chart of Services, V15, 3/09/2023
   (https://www.lahcfd.org/wp-content/uploads/2023/04/ChartOfServices-SP2023-27_V15.pdf)
3. Santa Clara County FireSafe Council Final Report: Arastradero Maintenance Evacuation Route project
4. Jackson Drone's Vegetation Assessment Report

Santa Clara County FireSafe Council

14380 Saratoga Ave. Saratoga CA, 95070
Phone (408) 975-9591 • www.SCCFireSafe.org

FINAL REPORT
Magdalena-Eastbrook Evacuation Route

November 25th, 2024

Introduction:

The Magdalena-Eastbrook Evacuation Route Project in Los Altos Hills, California, provides an important route of egress for a significant portion of the South-Eastern area of the Los Altos Hills Community in the event of a wildfire evacuation. To secure the integrity of this route, Los Altos Hills County Fire District and Santa Clara County FireSafe Council propose a roadside treatment of hazardous fuels.

Cooperators:

There were multiple agencies, contractors, property owners, and organizations that contributed to the project; Santa Clara County Fire Safe Council, Los Altos Hills County Fire District, Dudek, Denali Tree Service, BATS/City Rise Safety, the County of Santa Clara, Caltrans, and the Town of Los Altos Hills to name a few.

Goals For This Project:

1. Trim woody vegetation and weed whip grasses and weeds adjacent to the road.
2. Remove dead or dying woody debris of less than 8 inches DBH.
3. Reduce ladder fuels around larger trees.
4. Remove dead, diseased, or damaged trees smaller than 8 inches DBH posing a hazard.
5. At street corners where vegetation is thick and blocks visibility, trim and remove to meet standards of shrubs less than 3 feet high and trees limbed up to at least 6 feet above ground. Per Los Altos Hills Municipal Code Title 10-Zoning , “shrubs and plants shall be pruned to a height not to exceed three (3’) feet above the road level at its nearest point in an area bounded by the center line of intersecting roads or easements for vehicular access, public or private and a straight line joining points on such center lines eighty (80') feet distant from their intersection. All side limbs of trees in such an area shall be pruned to a height of not less than six (6’) feet above the road surface.”

Project Site:

The Magdalena-Eastbrook Evacuation Route project will treat parts of 7 roads along the evacuation route. These include Magdalena Avenue, Camino Hermoso Drive, West Loyola Drive, Rolly Road, Kenbar Road, Sunhills Drive, and Eastbrook Avenue.

The North end of the project is located at the intersection of Magdalena Avenue and Ravensbury Avenue (37.34964, -122.11142) and the South end of the project is located at the intersection of Sunhills Drive and Mora Drive (37.33935, -122.10096).

The length of the project is approximate.

1. Magdalena Avenue, from the intersection of Ravensbury Avenue to the intersection of Camino Hermoso Drive, is 1.26 linear miles, 2.52 miles for treatment on both sides of the roadway.

2. Camino Hermoso Drive, from the intersection of Magdalena Avenue to the intersection of West Loyola Drive, is 0.18 linear mile, which equates to 0.36 miles when accounting for treatment on both sides of the road.

3. West Loyola Drive, from the intersection of Camino Hermoso Drive to the intersection of Eastbrook Avenue, is 0.91 linear miles, 1.8 miles for treatment on both sides of the roadway.

4. Rolly Road, from the intersection of West Loyola Drive to the intersection of Kenbar Road, is 0.11 miles, 0.22 miles for treatment on both sides of the roadway.

5. Kenbar Road, from the intersection of Rolly Road to the intersection of Sunhills Drive, is 0.09 miles, 0.18 miles for treatment on both sides of the roadway.

6. Sunhills Drive, from the intersection of Mora Drive to the intersection of W. Loyola Drive, is0.2 miles, 0.4 miles for treatment on both sides of the roadway.

7. Eastbrook Avenue, from the intersection of Mora Drive to the intersection of Magdalena Avenue, is 1.01 miles, 2.02 miles for treatment on both sides of the roadway.

The total treatment of the project is approximately 3.76 miles in length, 7.52 miles for treatment on both sides of the route.

Santa Clara County FireSafe Council

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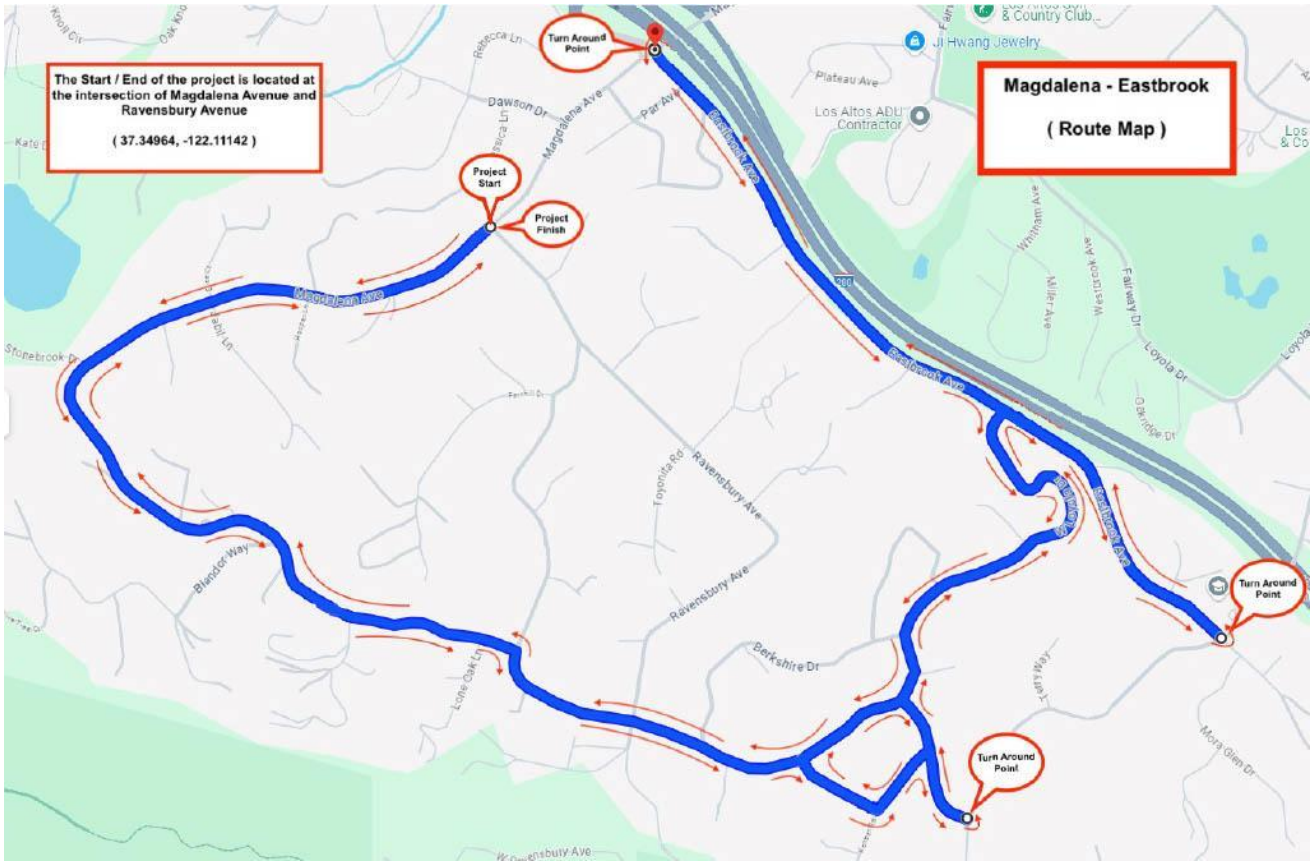
Magdalena-Eastbrook Evacuation Route Project Map



Permissions:

One of the biggest challenges in these types of projects is getting permission to treat the properties. During planning of the project we conducted an extensive public outreach effort to get the permissions needed. It included mailers, newspaper articles, door-to-door visits, and a social media campaign. We were able to include 11 of the 166 parcels involved. Prior to the project, LAHCFD staff conducted a survey of the area to identify key parcels within the project scope. SCCFSC's timeframe for ROE forms to be returned was 14 days with a due date of October 28th, 2024. LAHCFD and SCCFSC Staff went out to conduct door knocking 2 weeks prior to project start date.

Biological Precautions:

As with all of our projects, protecting the biodiversity of the area is a high priority. A Biological Survey was conducted on October 24th, 2024, by Dudek, 10 days before the project started. The biologist identified and flagged wood rats nests, active birds nests, and any habitat within the treatable area. The biological review was completed within the nesting season. Heritage trees were identified during the field verification stage and were not included in the work plan. Finally, a buffer of 25 feet was implemented along stream beds and seasonal waterways.

Project Duration:

The project started on Monday November 4th, 2024 and was completed on Friday September 8th, 2024. A total of 4 Days. We encountered 1 red flag day on November 6th, 2024 in which no work was conducted on that day.

Jurisdictions And Funders Involved:

Santa Clara County Fire Safe Council, Los Altos Hills County Fire District, Santa Clara County, CalTrans, and Town of Los Altos Hills.

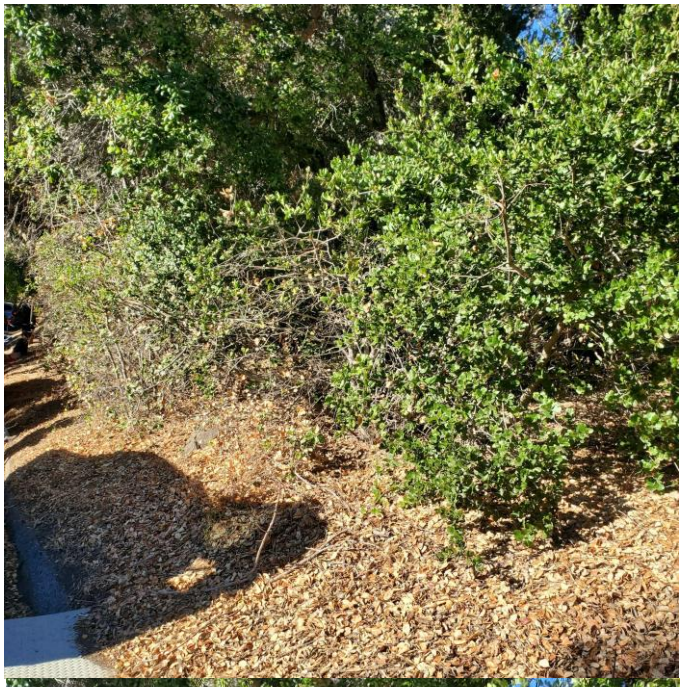
Contractors Selected:

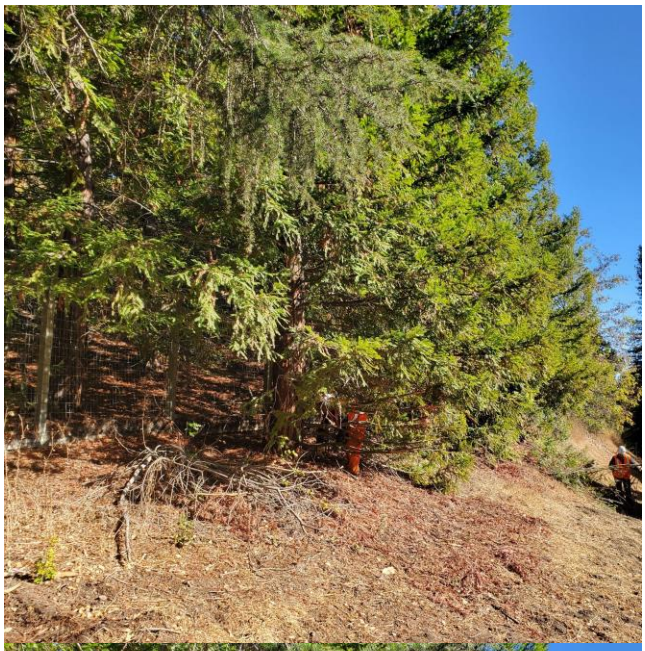
Dudek, was selected for this project due to availability and competitiveness of the bid

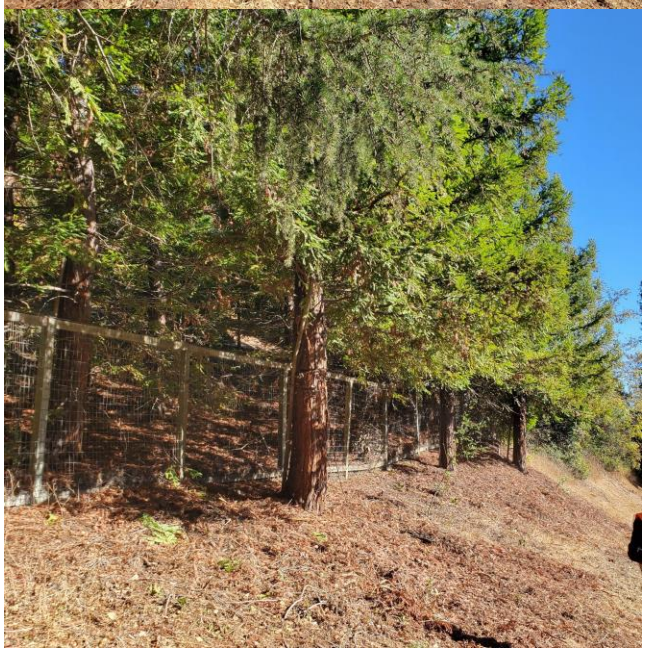
Denali Tree Service was selected due to their availability, familiarity with evacuation route projects within SCCFSC, commitment to self and public safety, and ability to complete the project within the requested time frame.

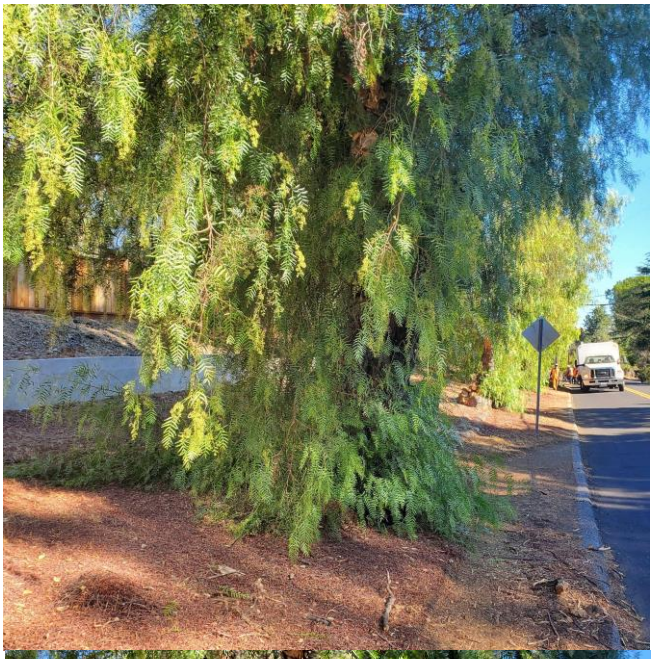
BATS/City Rise Safety provided a traffic control plan and provided four flaggers and traffic control for project duration.

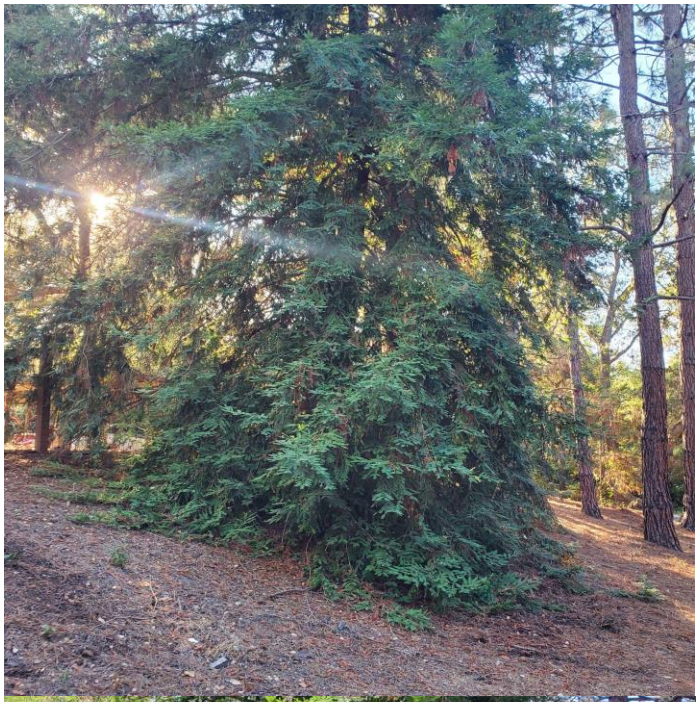
Project Photos

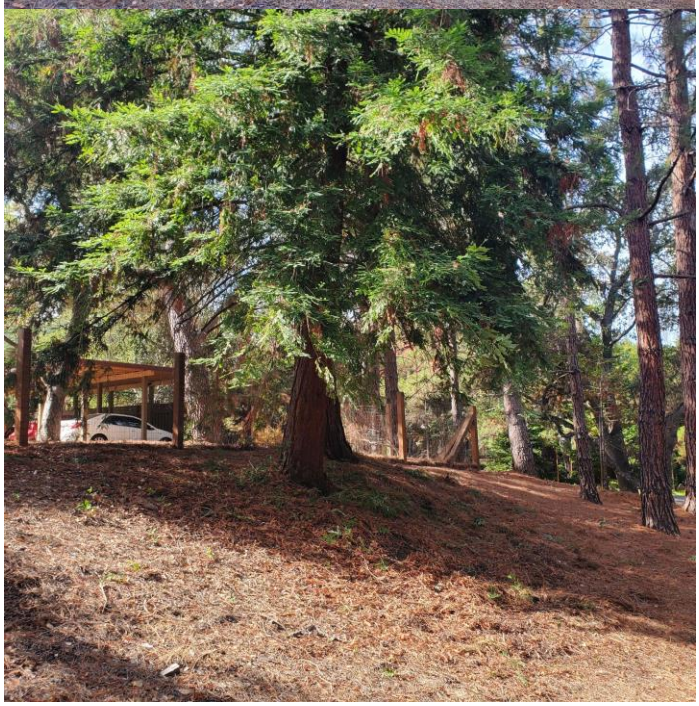












By The Numbers:

- Area treated – 7.00 miles total area treated for both sides were treated during this project. Most of which was treated 15 to 30 feet from the edge of the road unless marked for riparian area. On ROE properties treatment extended 30-50 feet from the edge of the road if needed. The daily average was 1.75 miles per day.
- Acres treated = 19.15 acres with an average of 4.79 acres treated per day.
- No poison oak was treated during this project.
- 4 days of treatment on the project itself was carried out by Denali Tree Service

We overcame many challenges to complete this critical part of growing the evacuation route and vegetation treatment system in Santa Clara County. This project also supports goals in the LAHCFD CWPP annex as well as the overall Community Wildfire Protection Plan.

We would like to acknowledge the contribution made by Denali Tree Service, Dudek, and BATS/City Rise Safety. All entities were committed to assisting Santa Clara County FireSafe Council with the project from start to finish.

Bats/City Rise Safety provided four traffic control personnel every day to make sure that the work could be done in a safe manner. All roads worked on are commuter roads with multiple driveways, high bike and foot traffic routes; the fourth traffic control personnel was necessary for the safety of the tree crews, SCCFSC staff, LAHCFD staff, general traffic, and bicyclists in the Los Altos Hills area. I'm happy to report, with BATS/City Rise Safety, traffic control coverage and the safe working practices of Denali Tree Service, we were able to finish the project with no reported injuries or incident reports. In addition to that, Los Altos Hills County Fire District granted permission for the project crew to use their parcel for a staging area.

Safety briefings were held by the safety officers, Zaid Ortiz each morning before start of work to discuss traffic control, personal protective equipment (PPE), local emergency services, environmental hazards, and weather conditions.

We would like to thank all the cooperators and property owners for all their support. If you have any questions or concerns please feel free to direct them to:

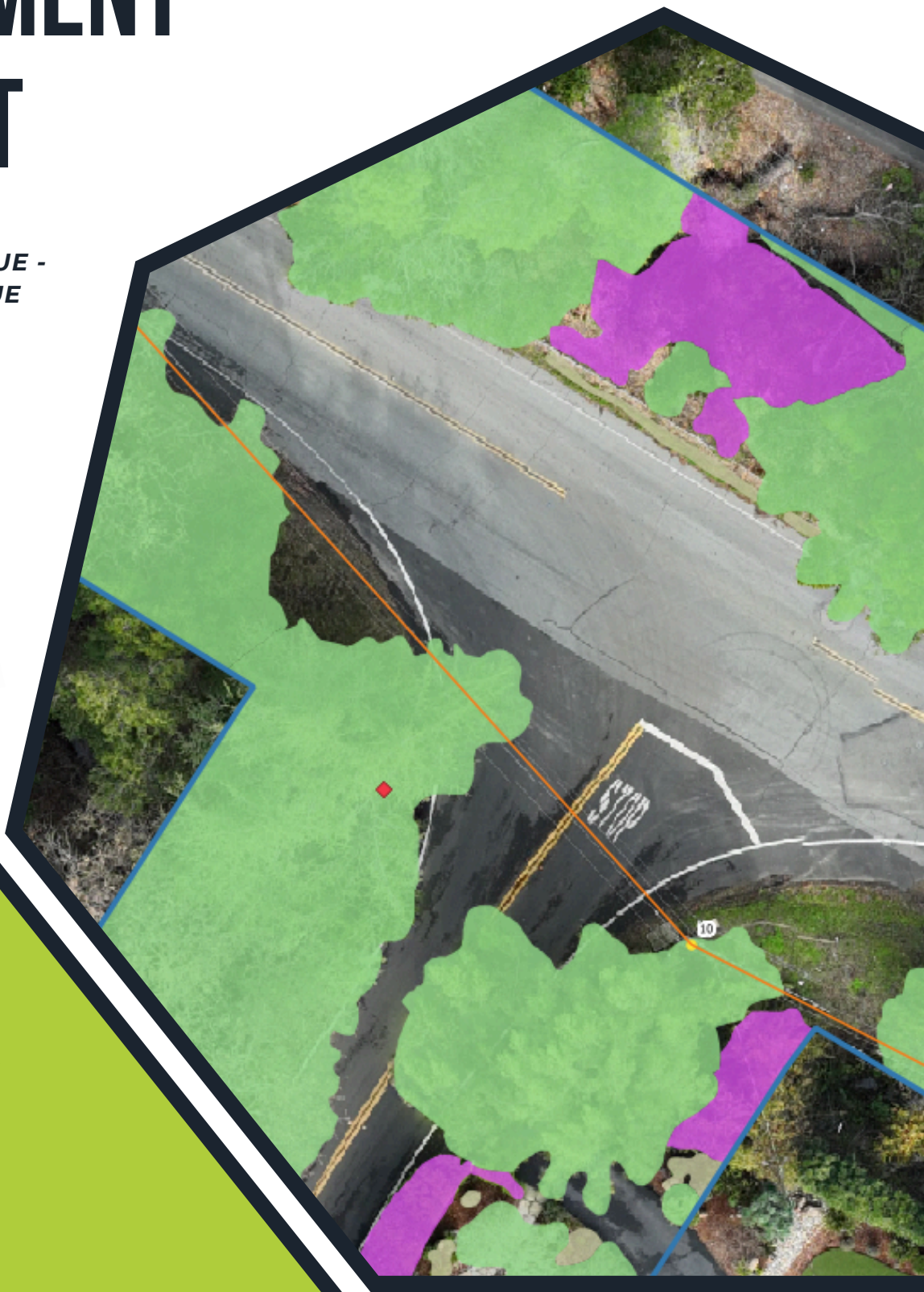
Zaid Ortiz –
Project Manager
e-mail: zortiz@sccfiresafe.org
Phone: (408) 679-5307

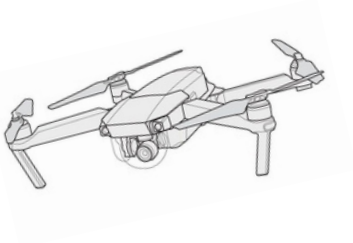
Amanda Brenner-Cannon –
Program Director
e-mail: abrennercannon@sccfiresafe.org

JACKSON'S DRONES

POST TREATMENT REPORT

PART 1:
MAGDALENA AVENUE - EASTBROOK AVENUE





LOS ALTOS HILLS COUNTY FIRE DISTRICT

DECEMBER 2024

OVERVIEW

66.9 acres

1.5 mi

December 2024

1,450 images

30x

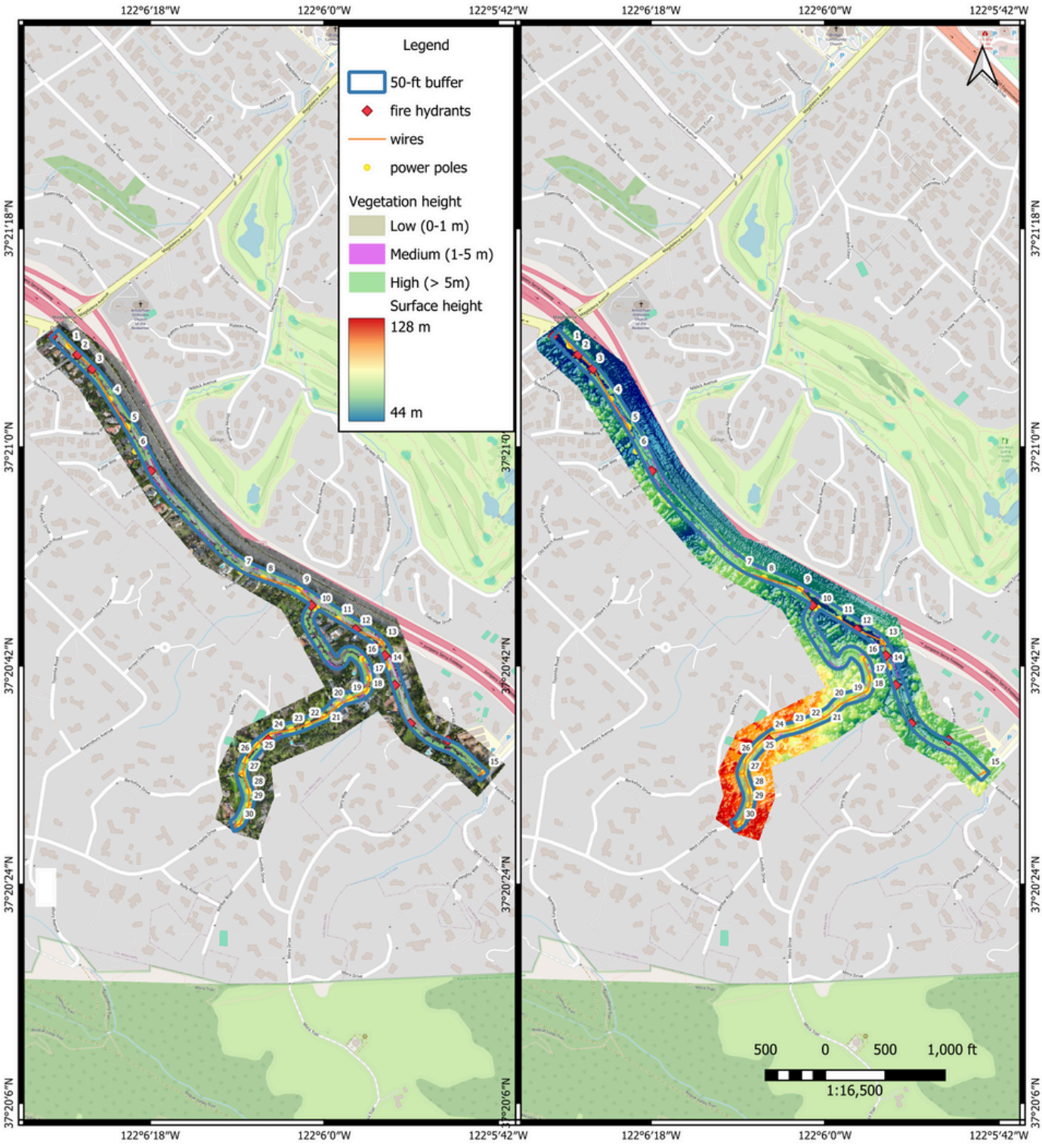
Moisture level analysed

Health status analysed

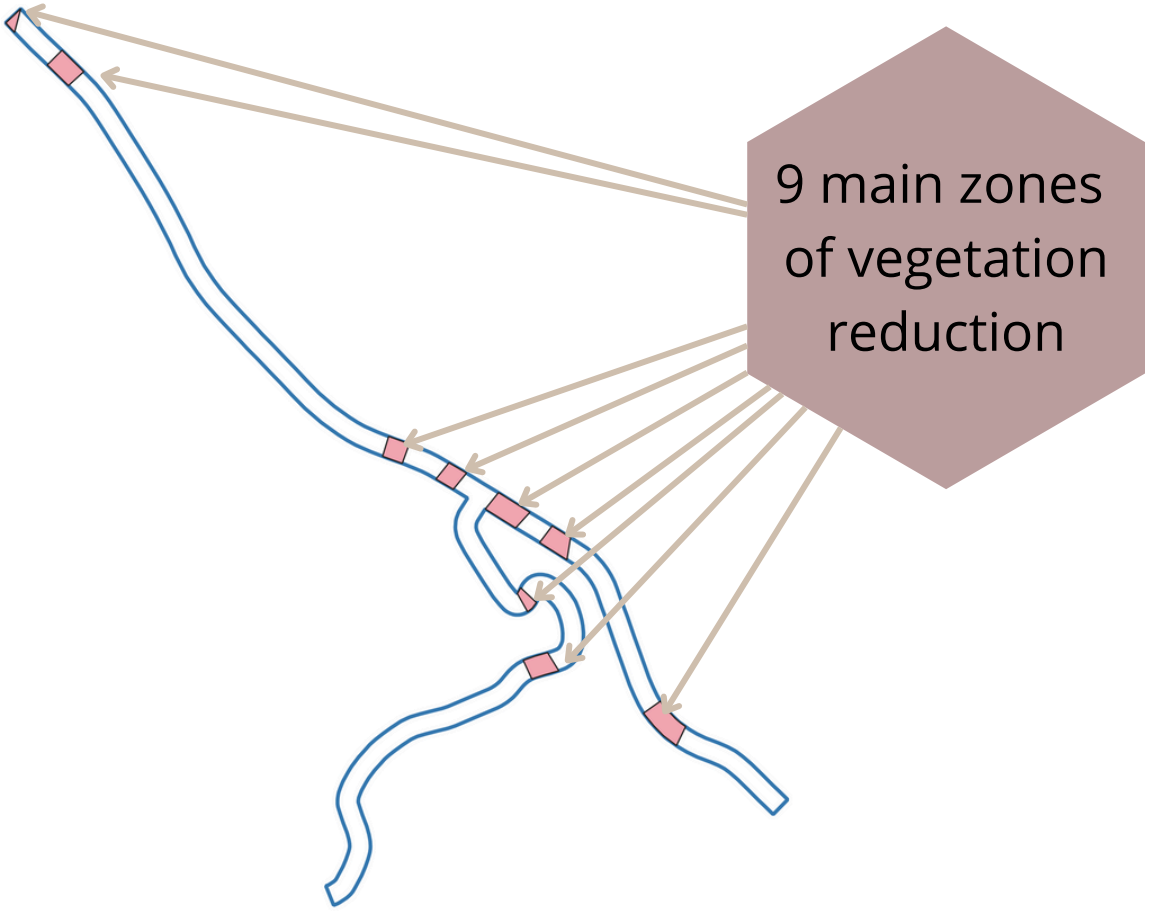
Vegetation height groups

JACKSON'S DRONES

OVERVIEW



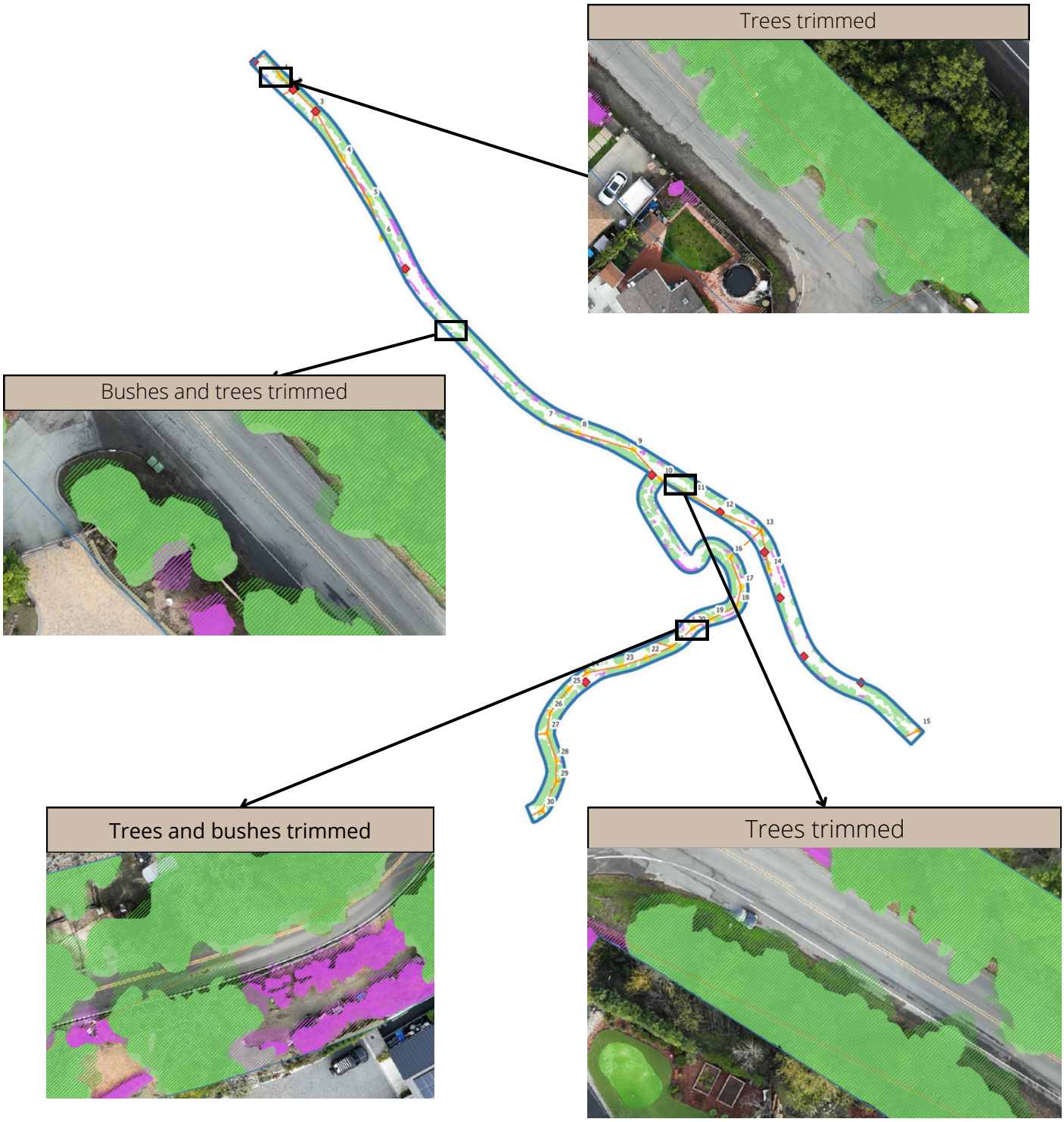
CHANGE DETECTION (JULY - DECEMBER 2024)



No changes/Increase

Area with vegetation reduction

CHANGE DETECTION (JULY - NOVEMBER 2024)

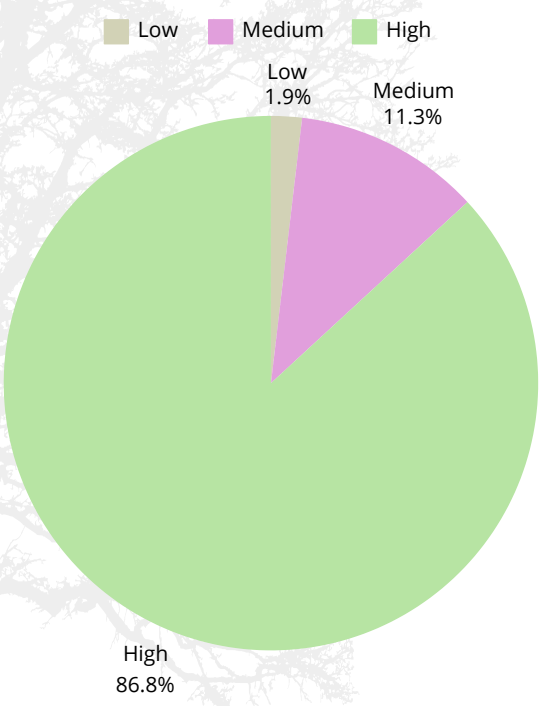


VEGETATION METRICS

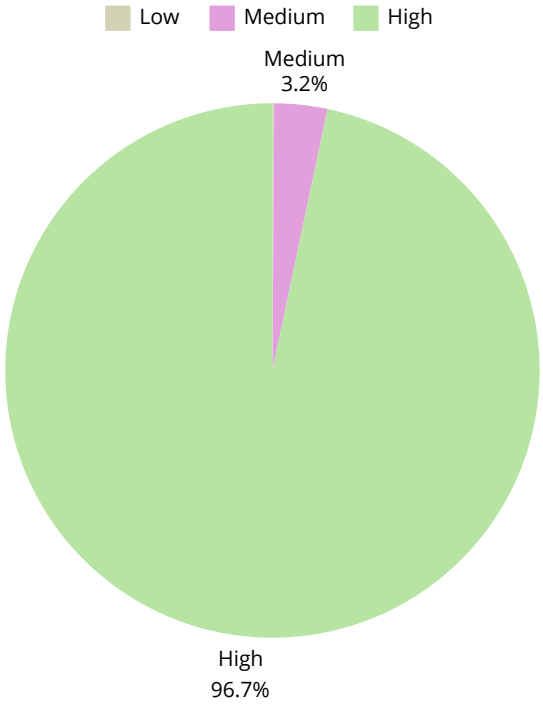
December '24

Vegetation	Area, acres	Volume, cubic yards
Low (up to 1 m)	0.19	741
Medium (1-5 m)	1.15	22,180
High (more than 5 m)	8.85	670,125

Vegetation area, %

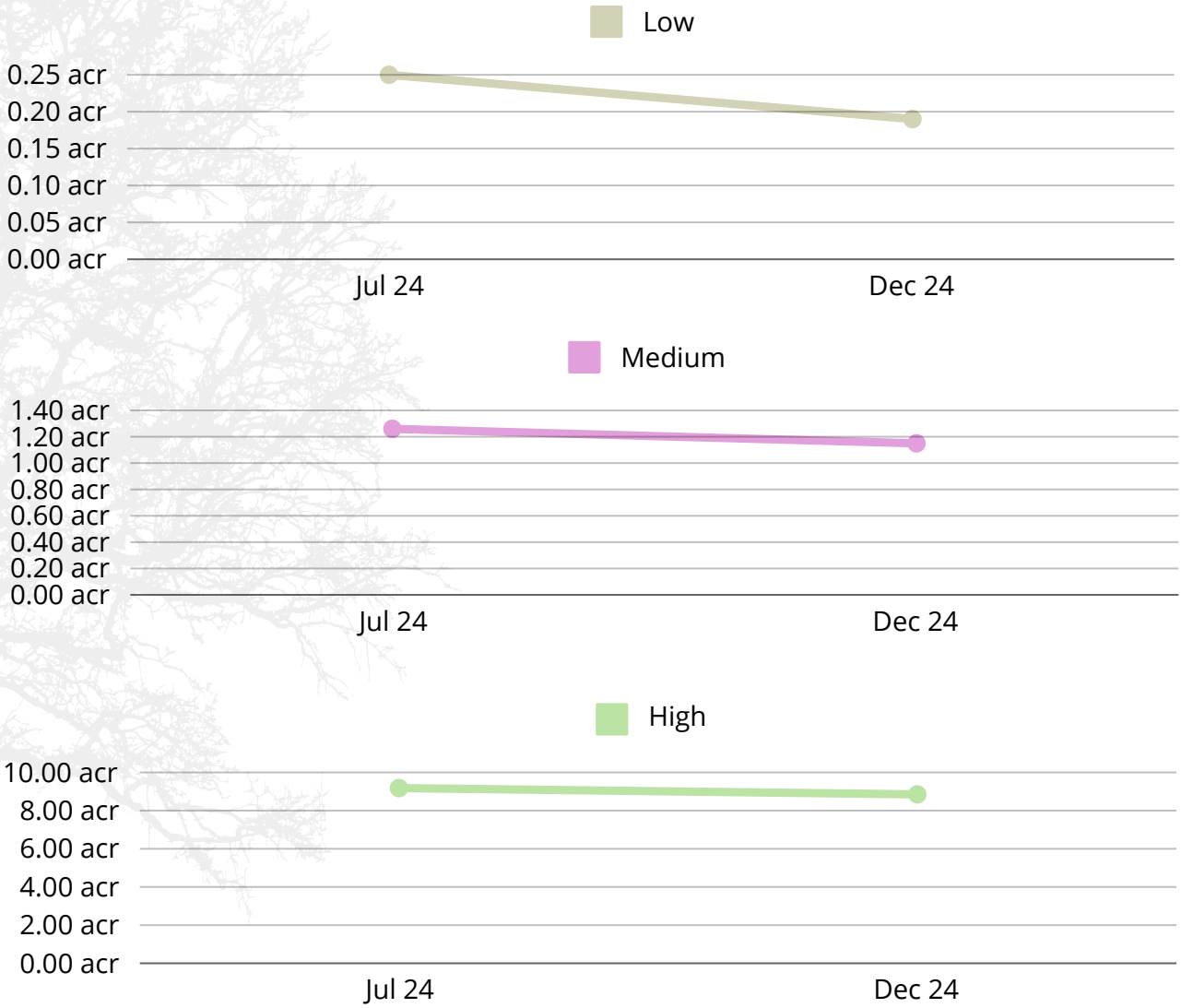


Vegetation volume, %



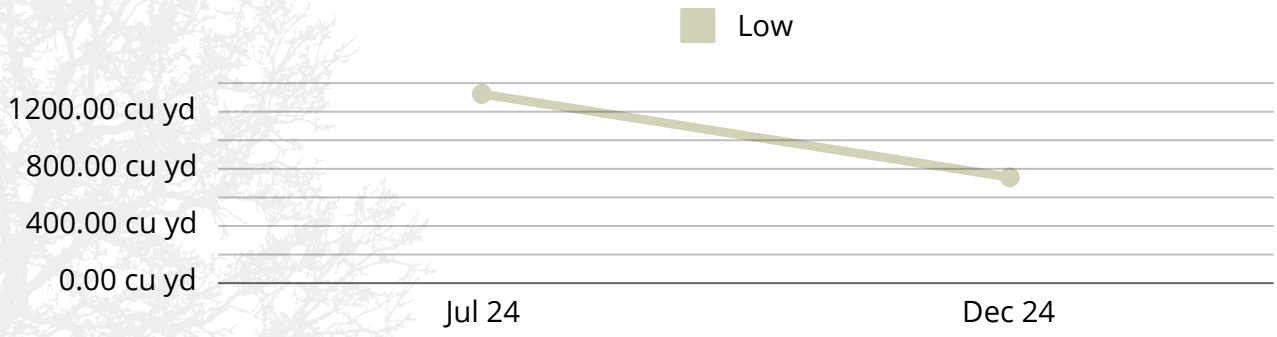
VEGETATION METRICS

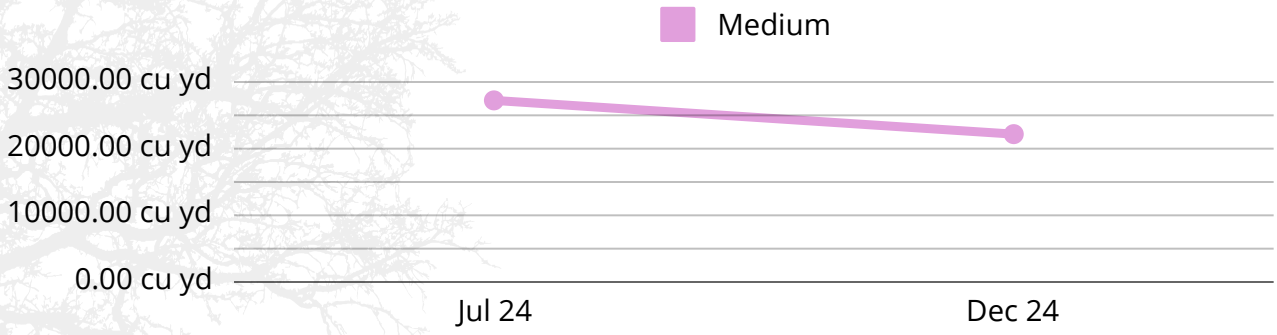
Vegetation height/ Areas (acres)	July '24	Dec '24	Regrowth rate
Low (up to 1 m)	0.25	0.19	-24%
Medium (1-5 m)	1.26	1.15	-9%
High (more than 5 m)	9.18	8.85	-4%

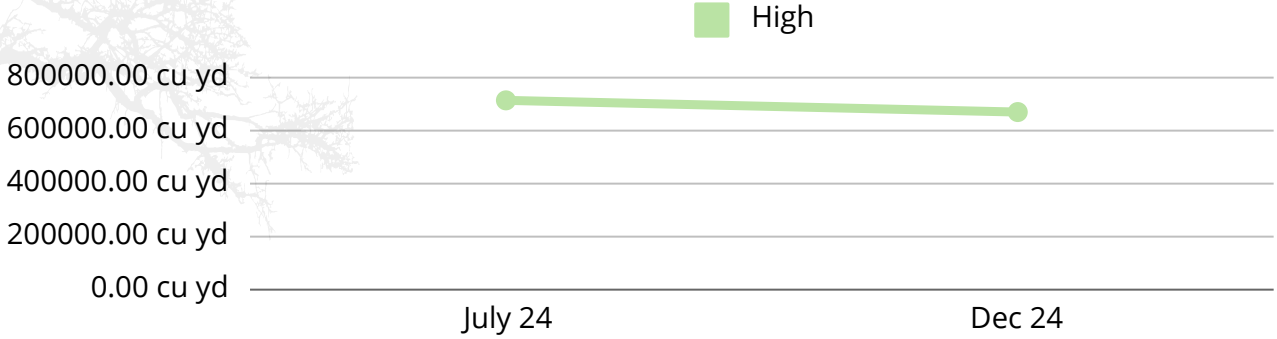


VEGETATION METRICS

Vegetation height/ Volume (cub yards)	July '24	Dec '24	Regrowth rate
Low (up to 1 m)	1,324	741	-44%
Medium (1-5 m)	27,241	22,180	-19%
High (more than 5 m)	714,228	670,125	-6%







VEGETATION HEALTH STATUS (NDVI)

57%

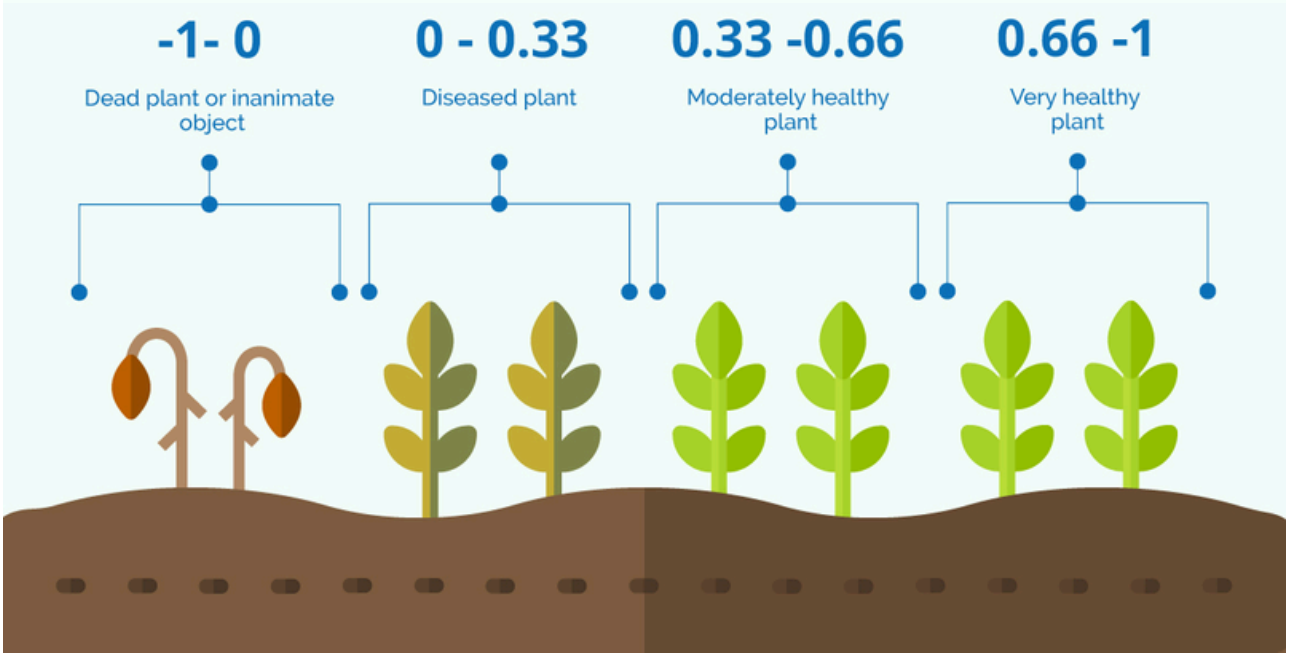
Unhealthy or diseased

29%

Moderately healthy

14%

Very healthy



MOISTURE CONTENT (GNDVI)

53%

Water stressed

43%

Low level of water content

4%

Medium level of water content

0%

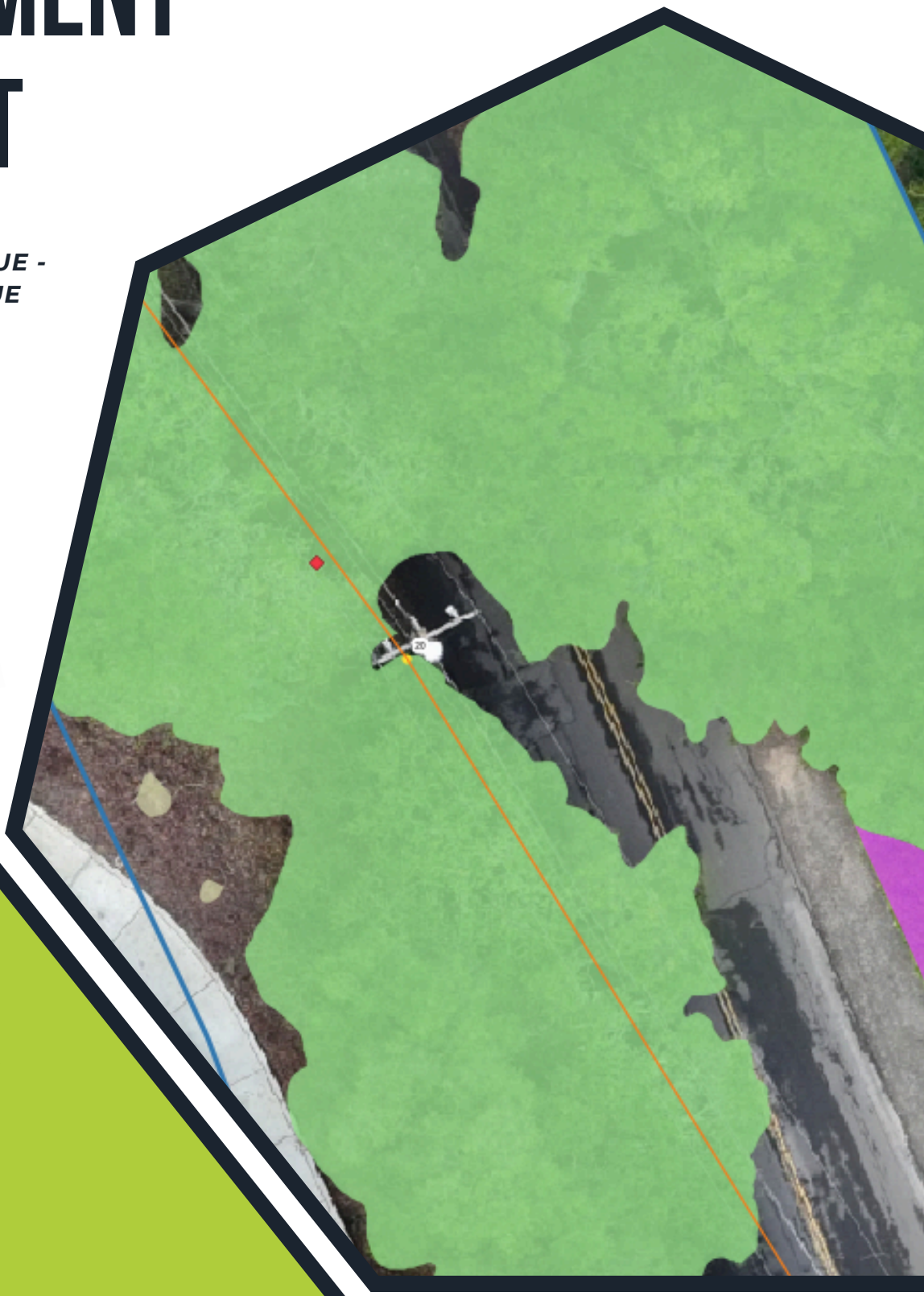
High level of water content

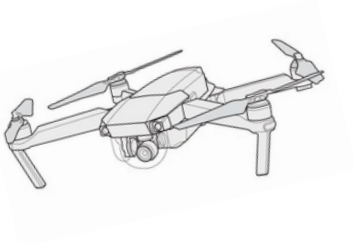
Vegetation Height Class	Average GNDVI value	Average Canopy Water Level	Average Moisture Content
All	-0.02	Water stressed	N/A
Low (< 1 m)	-0.11	Water stressed	<7%
Medium (1-5 m)	-0.06	Water stressed	<10%
High (> 5 m)	-0.01	Water stressed	<10%

JACKSON'S DRONES

POST TREATMENT REPORT

PART 2:
MAGDALENA AVENUE - EASTBROOK AVENUE





LOS ALTOS HILLS COUNTY FIRE DISTRICT

DECEMBER 2024

OVERVIEW

123.5 acres

2.2 mi

December 2024

2,060 images

64x

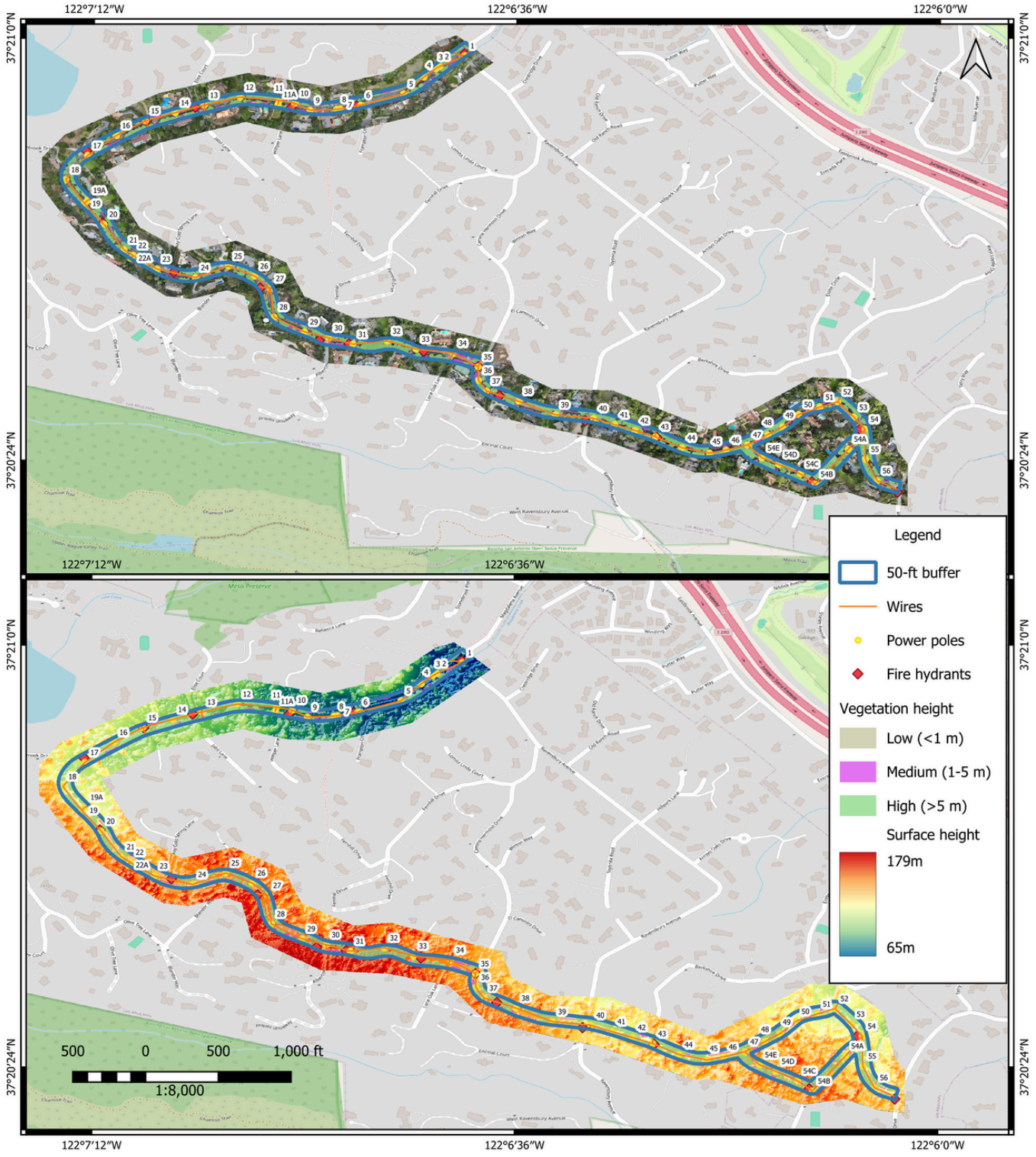
Moisture level analysed

Health status analysed

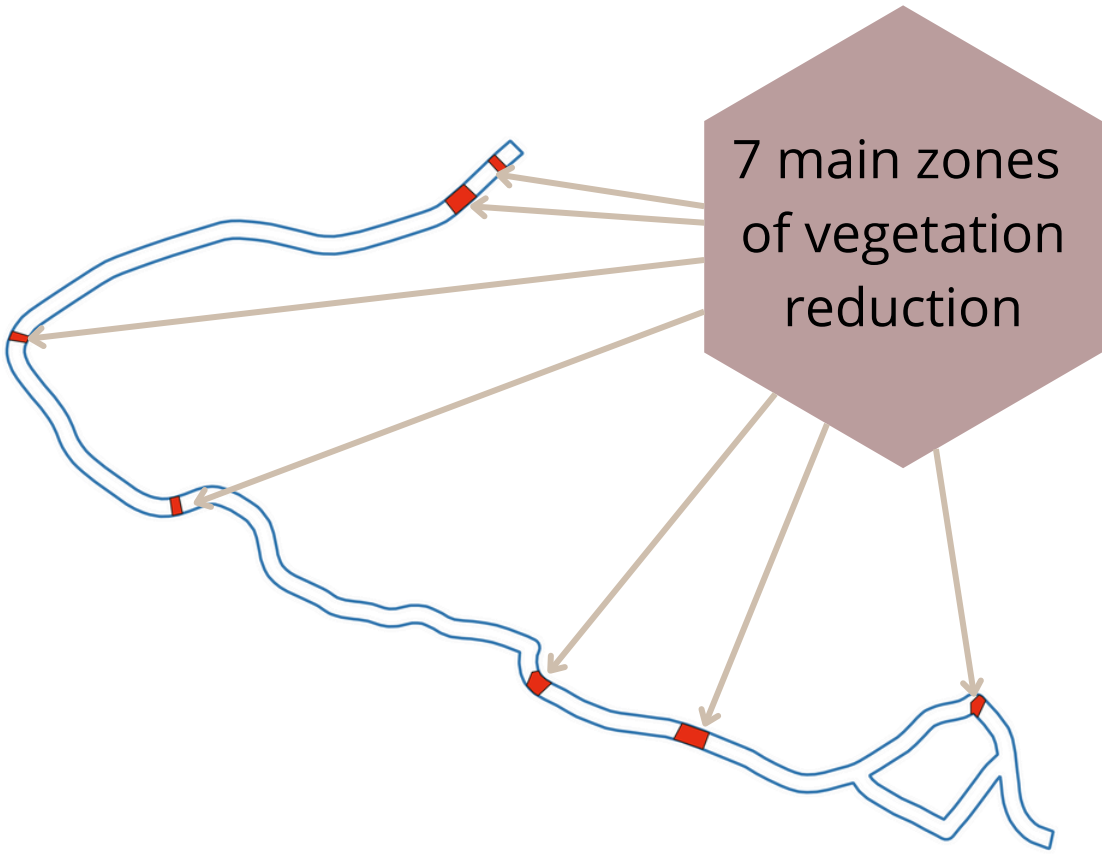
Vegetation height groups

JACKSON'S DRONES

OVERVIEW



CHANGE DETECTION (JULY - DECEMBER 2024)

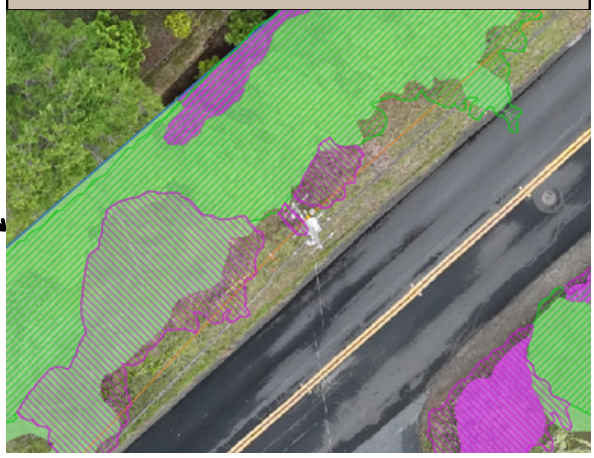


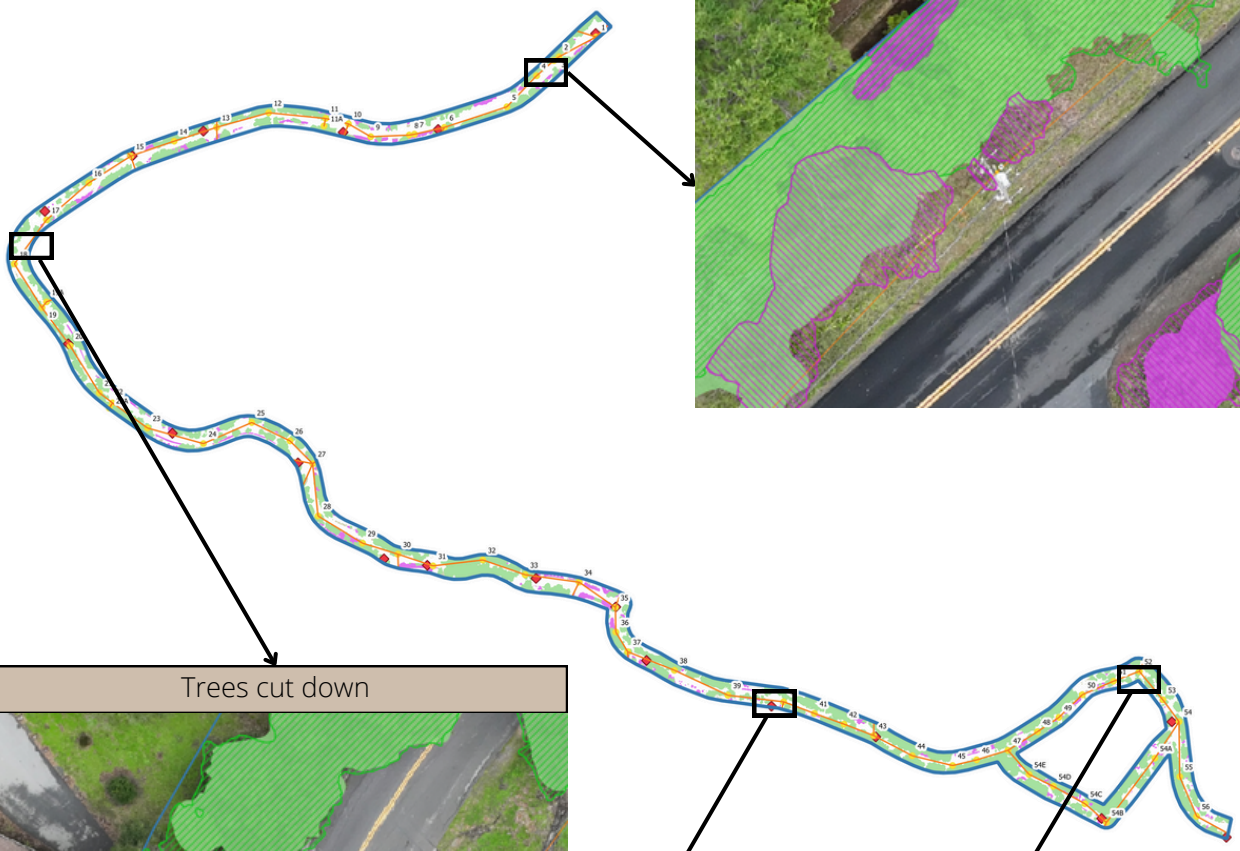
No changes/Increase

Area with vegetation reduction

CHANGE DETECTION (JULY - DECEMBER 2024)

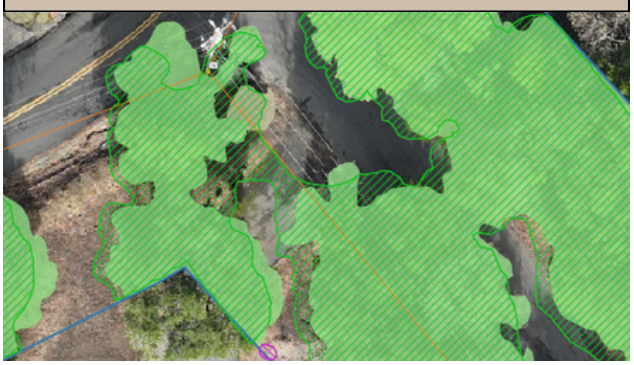
Trees and bushes trimmed



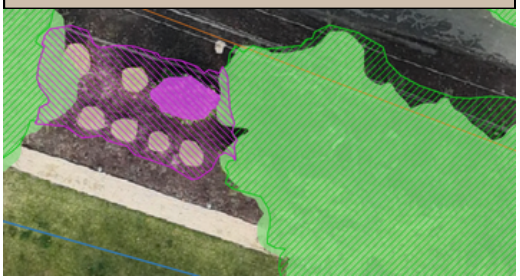


Trees cut down

Trees trimmed



Bushes trimmed

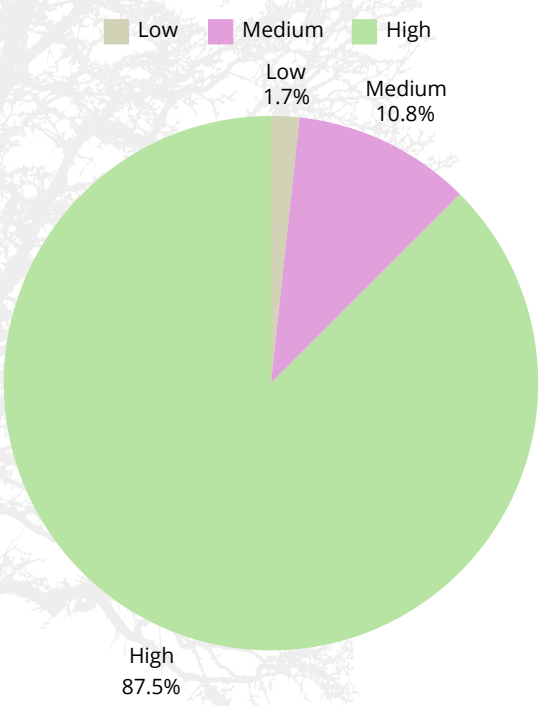


VEGETATION METRICS

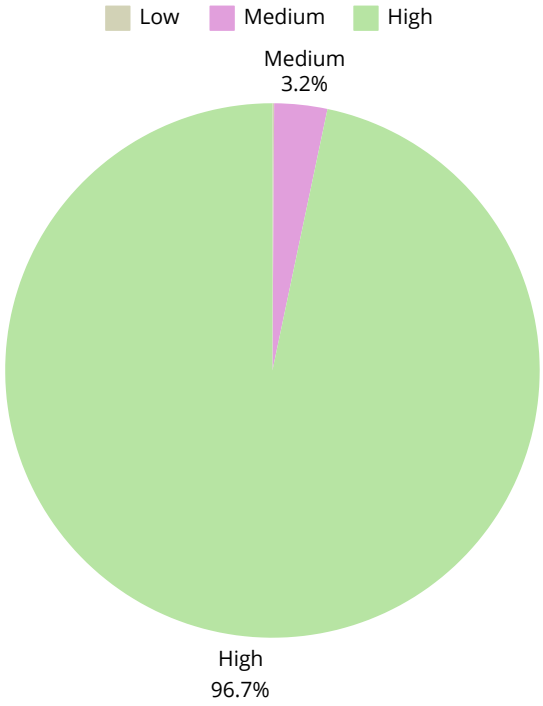
December '24

Vegetation	Area, acres	Volume, cubic yards
Low (up to 1 m)	0.26	1,144
Medium (1-5 m)	1.64	35,463
High (more than 5 m)	13.29	1,071,004

Vegetation area, %

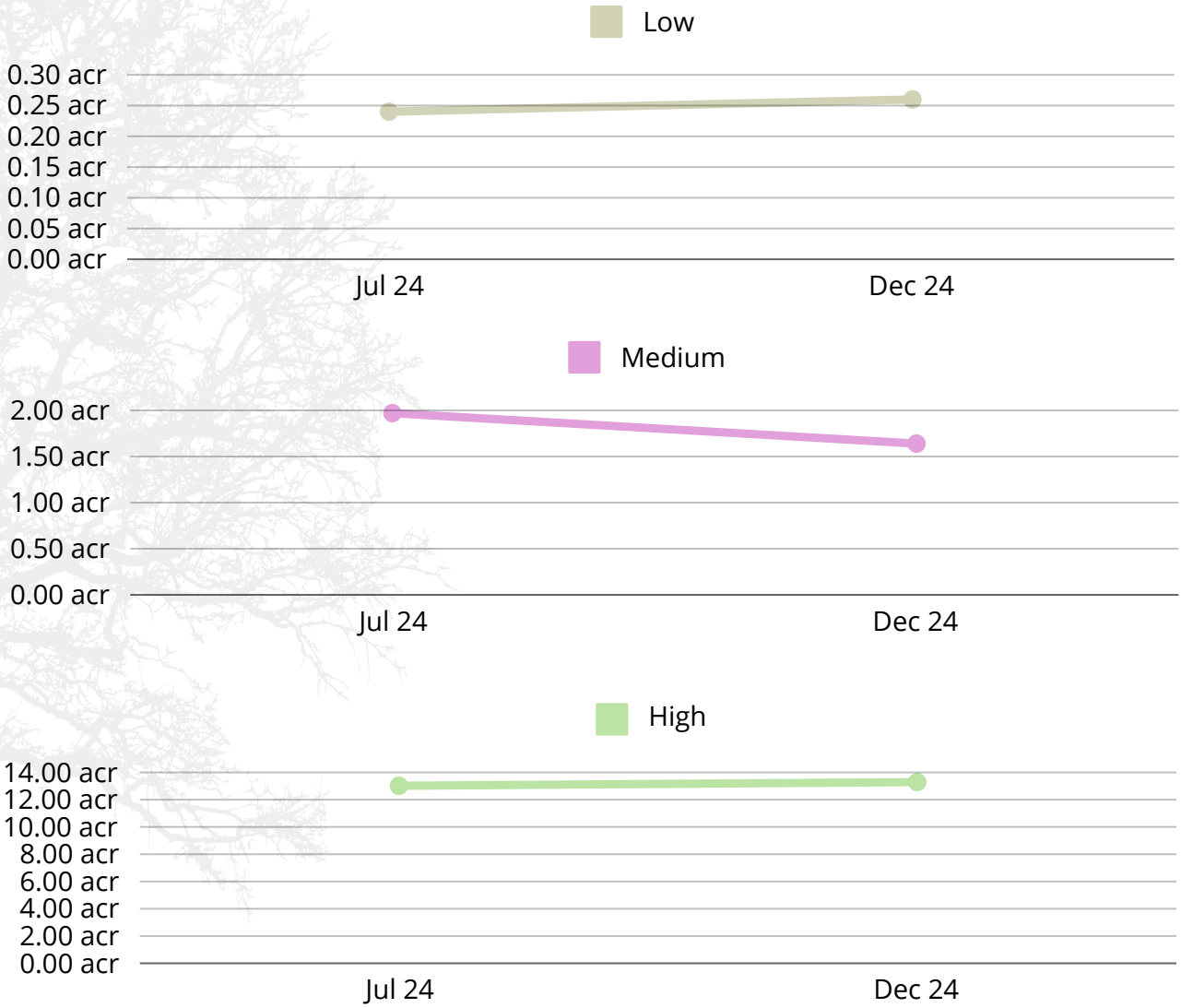


Vegetation volume, %



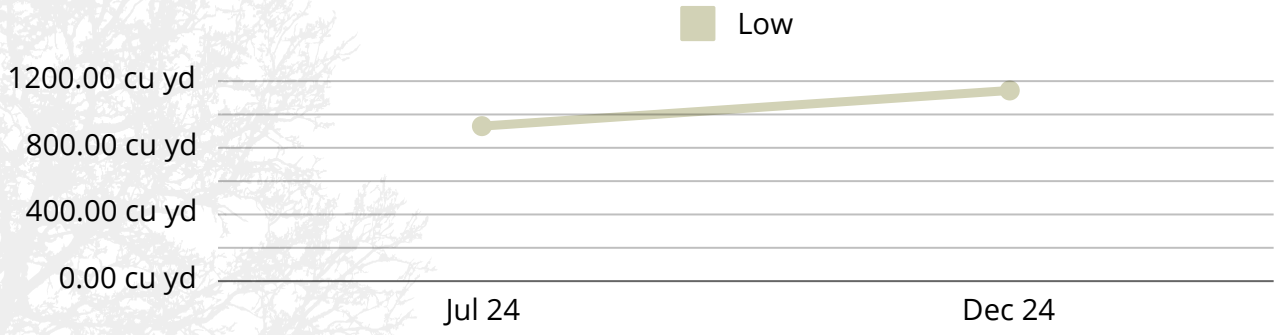
VEGETATION METRICS

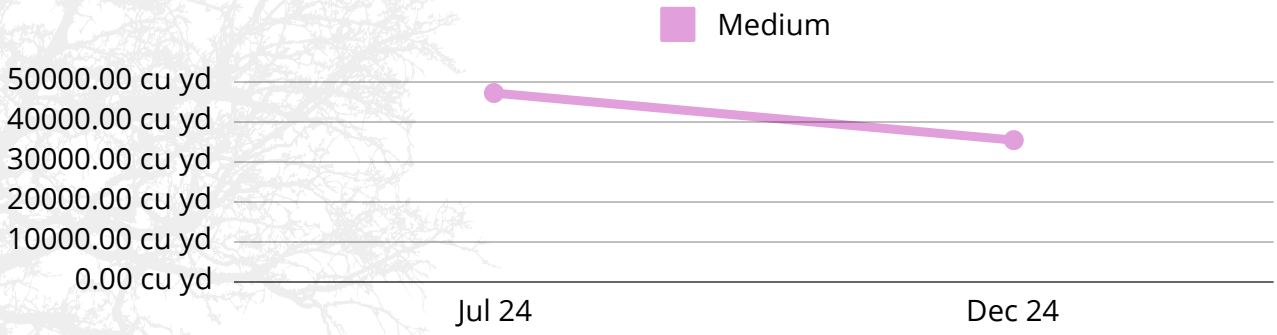
Vegetation height/ Areas (acres)	July '24	Dec '24	Regrowth rate
Low (up to 1 m)	0.24	0.26	+8%
Medium (1-5 m)	1.97	1.64	-17%
High (more than 5 m)	13.02	13.29	+2%

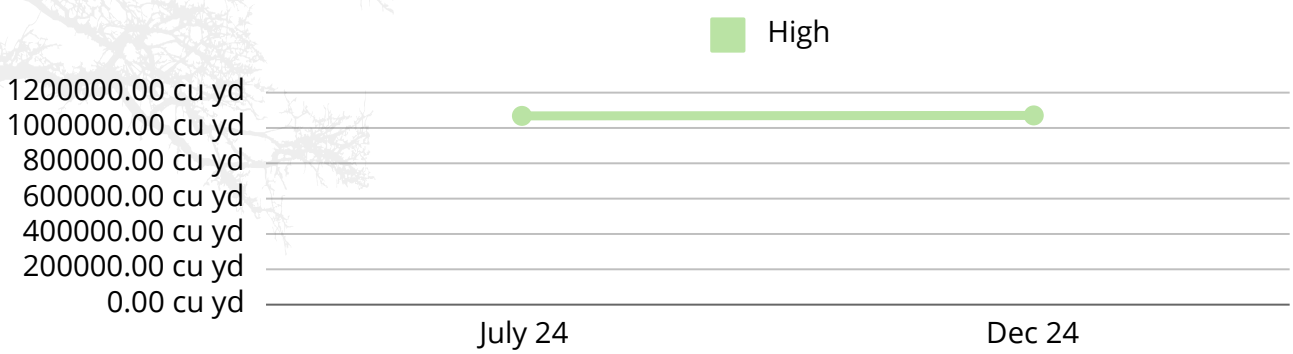


VEGETATION METRICS

Vegetation height/ Volume (cub yards)	July '24	Dec '24	Regrowth rate
Low (up to 1 m)	930	1,144	+23%
Medium (1-5 m)	47,248	35,463	-25%
High (more than 5 m)	1,068,304	1,071,004	+0.3%







VEGETATION HEALTH STATUS (NDVI)

94%

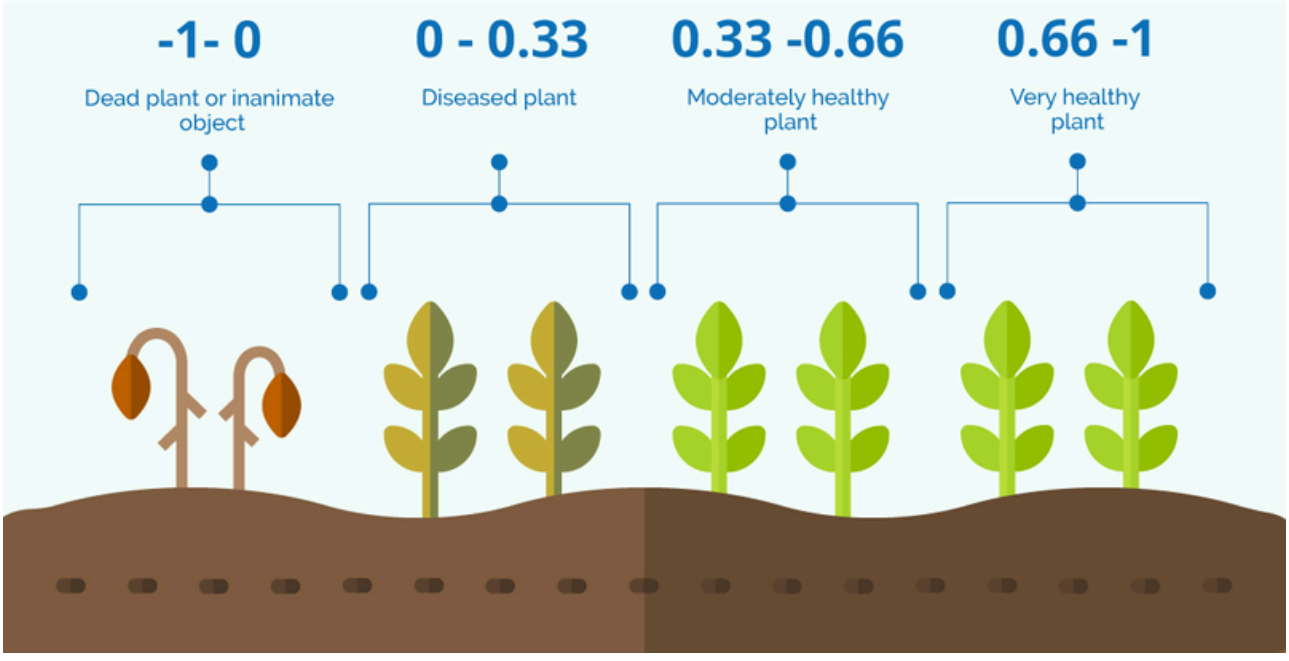
Unhealthy or diseased

5%

Moderately healthy

1%

Very healthy



MOISTURE CONTENT (GNDVI)

72%

Water stressed

27%

Low level of water content

1%

Medium level of water content

0%

High level of water content

Vegetation Height Class	Average GNDVI value	Average Canopy Water Level	Average Moisture Content
All	-0.1	Water stressed	N/A
Low (< 1 m)	-0.16	Water stressed	<7%
Medium (1-5 m)	-0.09	Water stressed	<10%
High (> 5 m)	-0.1	Water stressed	<10%