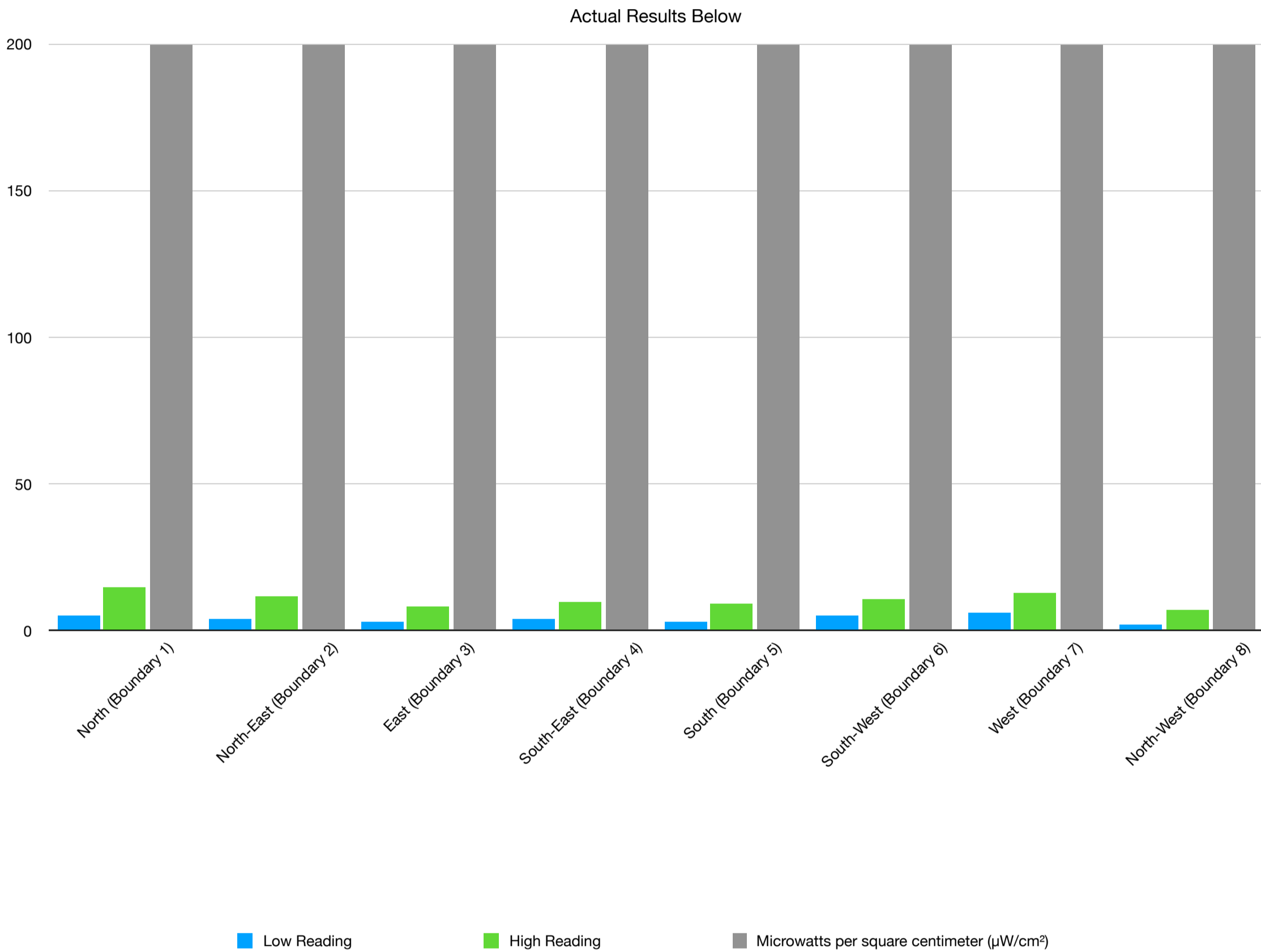


Client Name:	Jaiganesh Ramadoss
Project Address	31228 St Joe Road Dade City , FL 33525
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Project Number	2024 - 366
Date of Survey	08/29/2024 - 12:30 pm - Tech: Aaron Smith
Comments:	Based on the RF electromagnetic field measurements taken at the plot of land at 31228 St Joe Road, Dade City, FL 33525, the recorded power density levels ranged from a low of 2 $\mu\text{W}/\text{cm}^2$ to a high of 15 $\mu\text{W}/\text{cm}^2$ across eight points on the property. These readings are significantly below the safety thresholds set by the FCC and ICNIRP, which specify limits of 200 to 1,000 $\mu\text{W}/\text{cm}^2$ for public exposure, depending on the frequency of the RF emissions. Given that all measurements are well within these safety limits, the property is considered safe for a wide range of uses, including residential living, wildlife habitation, and agricultural activities. The low exposure levels mean minimal risk to people, animals, and crops, ensuring a safe environment for diverse purposes.



Summary

Location	Low Reading	High Reading	Microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$)
North (Boundary 1)	5	15	200
North-East (Boundary 2)	4	12	200
East (Boundary 3)	3	8	200
South-East (Boundary 4)	4	10	200
South (Boundary 5)	3	9	200
South-West (Boundary 6)	5	11	200
West (Boundary 7)	6	13	200
North-West (Boundary 8)	2	7	200

Understanding These Results

The RF electromagnetic field measurements recorded on the plot of land at 31228 St Joe Road, Dade City, FL 33525, show low and high readings between 2 and 15 $\mu\text{W}/\text{cm}^2$ across different points. To put these numbers into context, the Federal Communications Commission (FCC) and the International Commission on Non-Ionizing Radiation Protection (ICNIRP) set safety exposure limits for the general public at 200 to 1,000 $\mu\text{W}/\text{cm}^2$, depending on the frequency of the RF emissions. All measurements on the property are well below these limits, meaning that the electromagnetic exposure levels from the nearby cell phone tower are within safe boundaries. This indicates that the property is safe and poses minimal risk of RF exposure, providing peace of mind regarding potential health concerns.

For measuring electromagnetic fields (EMF) from cell towers, the best unit of measurement is **power density**, which is typically expressed in **microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$)** or **milliwatts per square meter (mW/m^2)**. This unit is most appropriate because it reflects the amount of radiofrequency (RF) energy transmitted through the air from the cell tower to a specific point, which helps determine if the exposure levels are within safe limits set by health

08/30/2024