Carson River UAS Modeling and Monitorin Funded through - NDEP 106

Shane Fryer Watershed Program Specialist CWSD



NEVADA DIVISION OF ENVIRONMENTAL PROTECTION

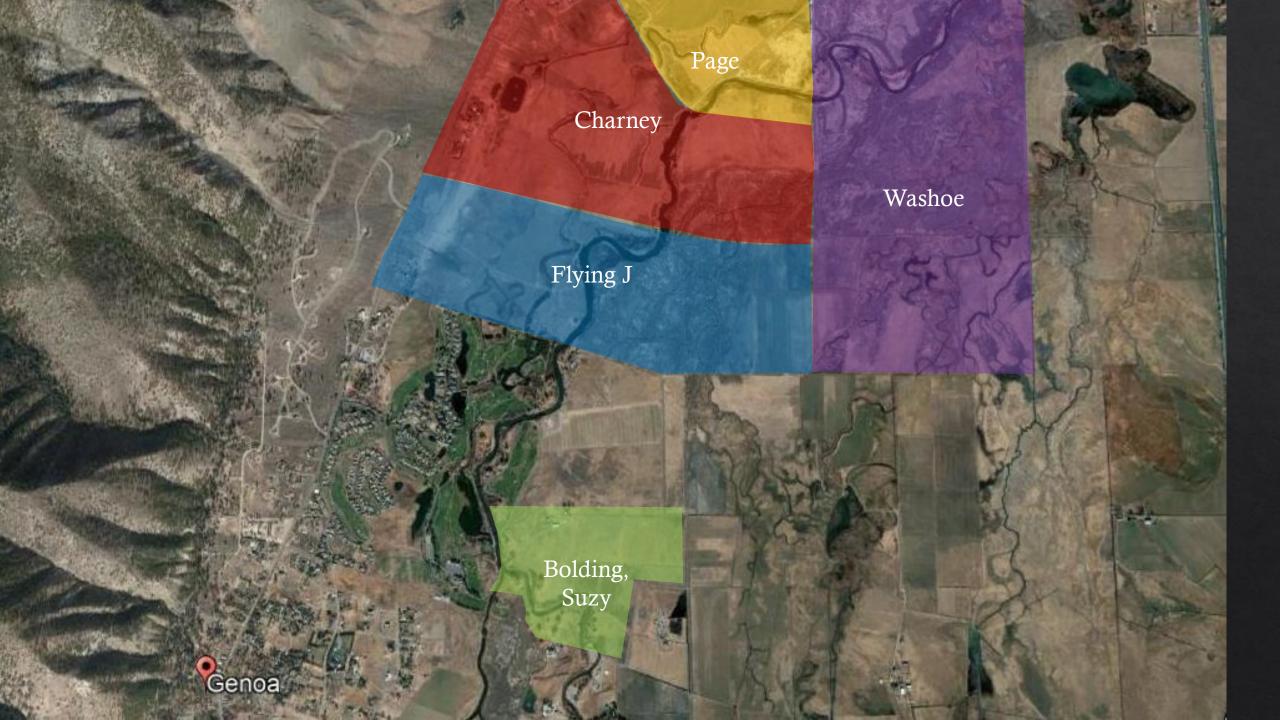


SERVANCY

- Carson River UAS Modeling and Monitoring
 NDEP Section 106 funds awarded
 February 2020 October 2020
 - The "Carson River UAS Modeling and Monitoring Project" will evaluate the use of "Unmanned Aerial Systems" (UAS, drone) to monitor impacts to the Carson River, by coordinating with key partners who implement river restoration/stabilization projects
- 10 Test Sites

- 1-inch 20MP CMOS sensor and a mechanical shutter
- 4K Video at 100 Mbps @ 60fps
- 30-min Flight Time
- Maximum speed of 45mph

PHANTOM 4 PRO V2.0



Bolding, Suzy

Flying J Ranch



Charney Ranch

And the second second second

Charney Ranch

100 m

Google Earth

Charney Ranch

Page Ranch

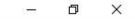
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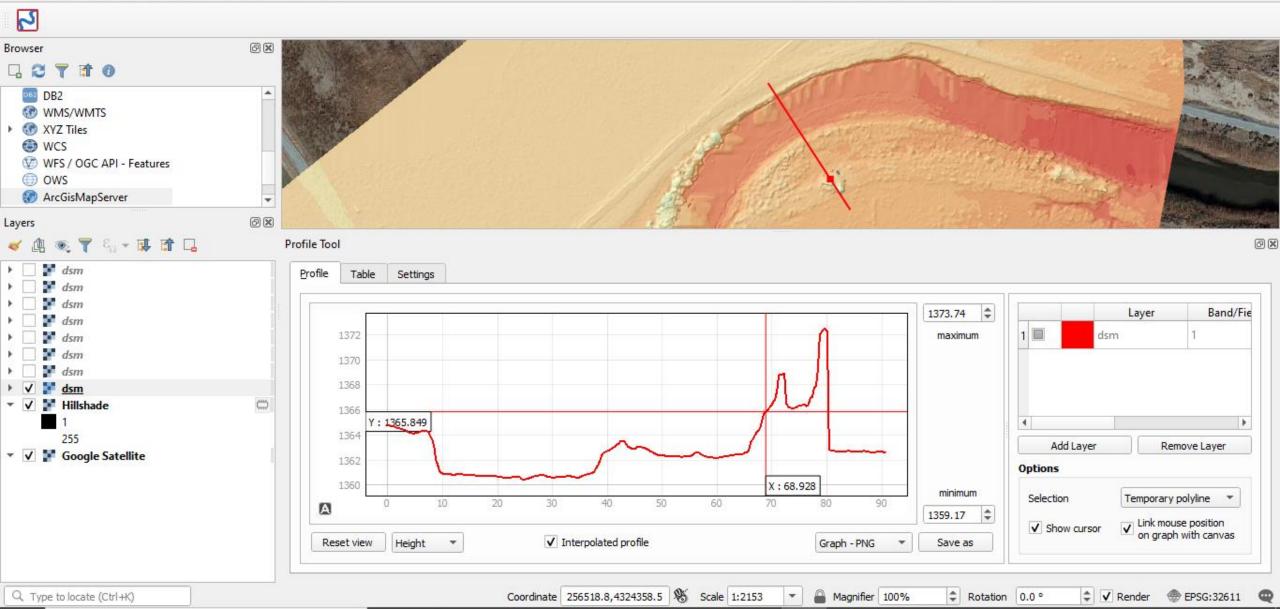
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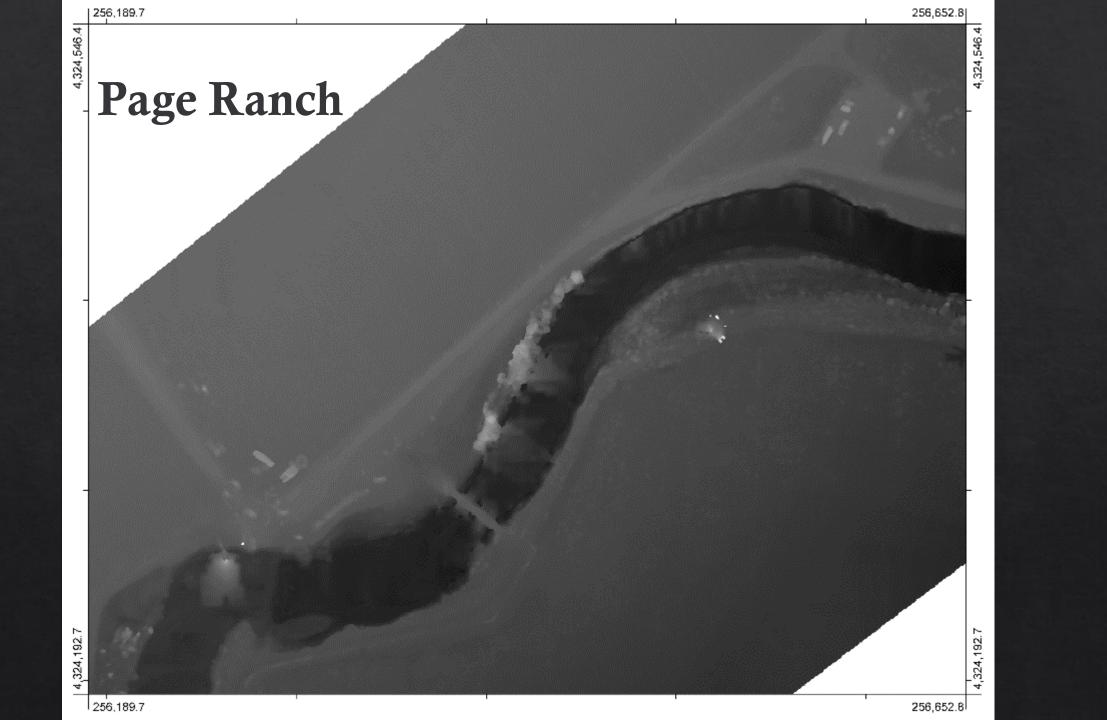
Page Ranch

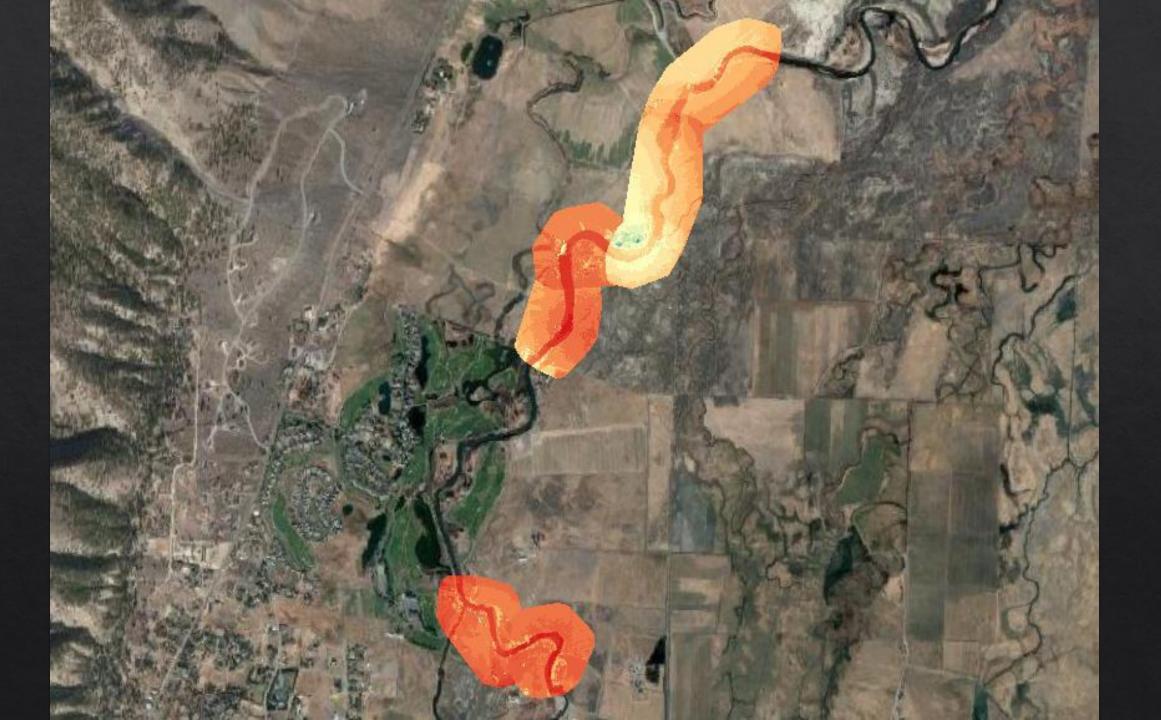
🔇 *Untitled Project - QGIS











- Weather, Wind, Light!
- The "dryer" the better
- Leaves matter less, powerlines do!
- Focused sites much easier to plan for and collect data
 - Ground Control Points Relative vs Absolute Elevation Integrated GCP file
- Flying with Terrain Awareness Software
- Processing intense; 6-8 hours render

Cradlebaugh Bridge

Buzy's Ranch

Kock Ditch

1

Buckland Ditch

Lost Lakes

Google Earth

N

3 km

West Fork



Lahontan Delta

Questions?

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