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**Project Title: Fine-Scale Vegetation Map for Clark**

**County Purchase Order: 4800013250-002**

**Project Number: 2023-COGAN-2337A**

**Deliverable #: D07**

**Deliverable Title: Quarterly Progress Report #2**

**Deliverable Date: March 4, 2026**

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## **1. Accomplishments:**

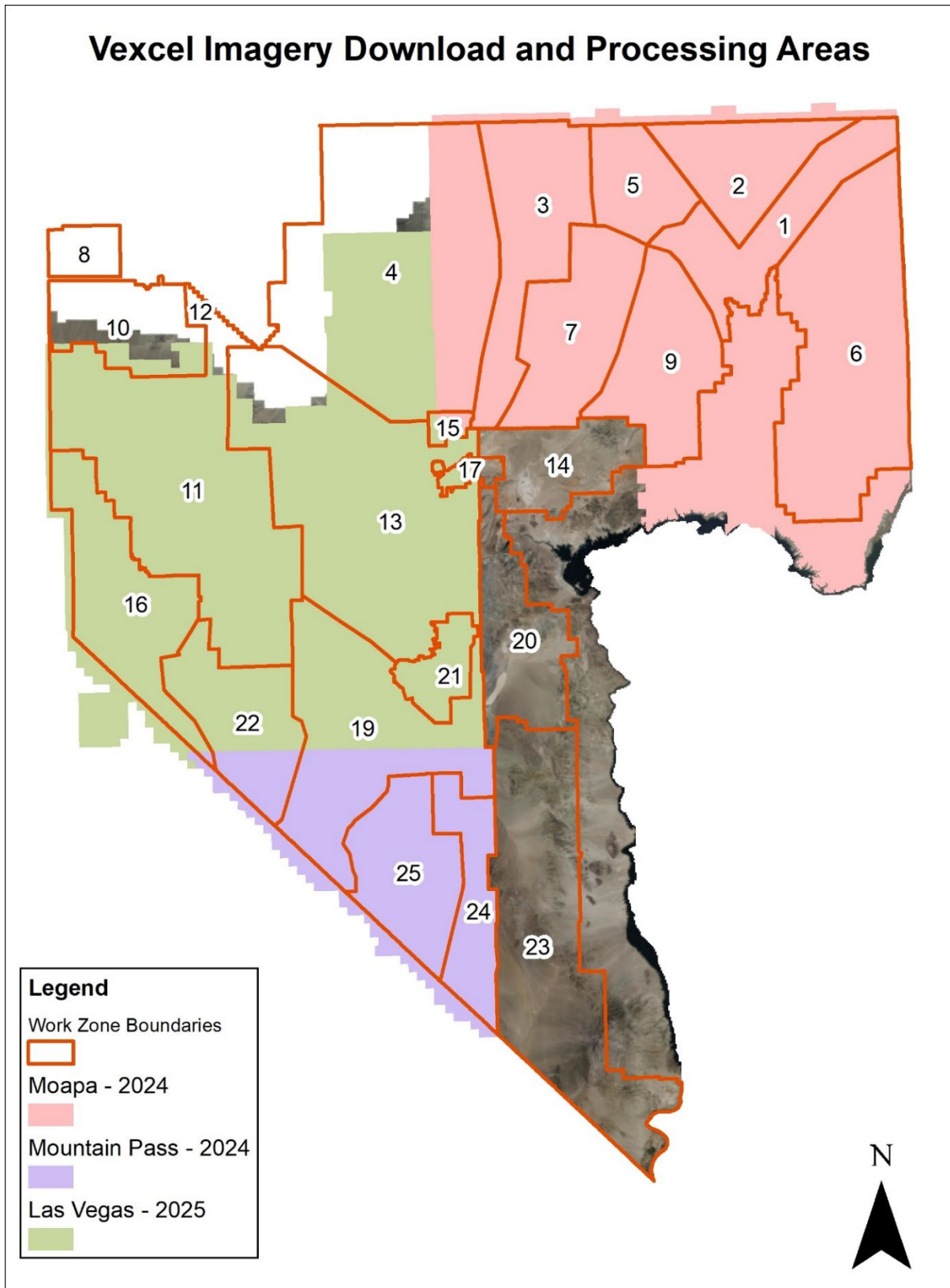
### Past Accomplishments:

- Contract Award and Mobilization
- Project Kick-off Meetings and Calls
- Work Plan
- Data Management Plan
- Permits
- Draft Taxonomic Classification
- New Imagery Acquisition and Contracting (Vexcel)

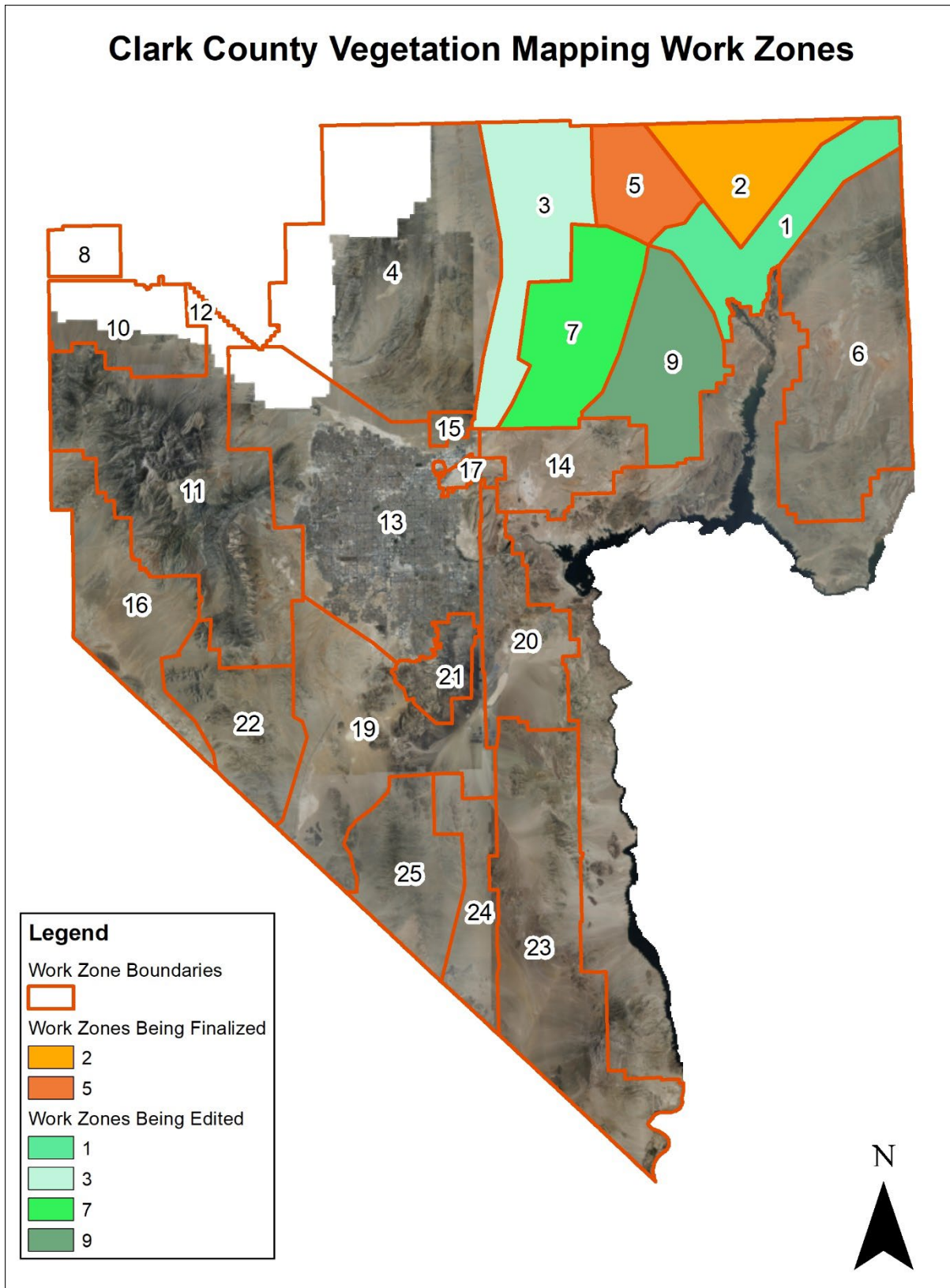
### Current Accomplishments:

- Image Acquisition  
Vexcel has provided imagery for the project area through both their streaming service and as downloads. Imagery for three portions of the project area have been successfully downloaded and stored on CTI servers. These include the Mountain Pass-2024 (1,527 tiles, 775 GB), Moapa-2024 (2,644 tiles, 2.7 TB), and Las Vegas-2025 (2,688 tiles, 2.25 TB) sections (**Figure 1**).
- Map Zone Refinement  
The mapping zones were modified to match the timing of the Vexcel Imagery Acquisition boundaries.
- Fine-Scale Mapping  
CTI has begun the fine-level mapping using Vexcel imagery on six work zones. Work zones 2 and 5 are being finalized and work zones 1, 3, 7, and 9 are being edited (**Figure 2**).
- High Resolution Image Processing  
CTI has successfully downloaded Vexcel imagery and has applied image correction, edge matching, resolution reduction, downscaling, and other image processing techniques for vegetation mapping purposes (**Figure 3**).

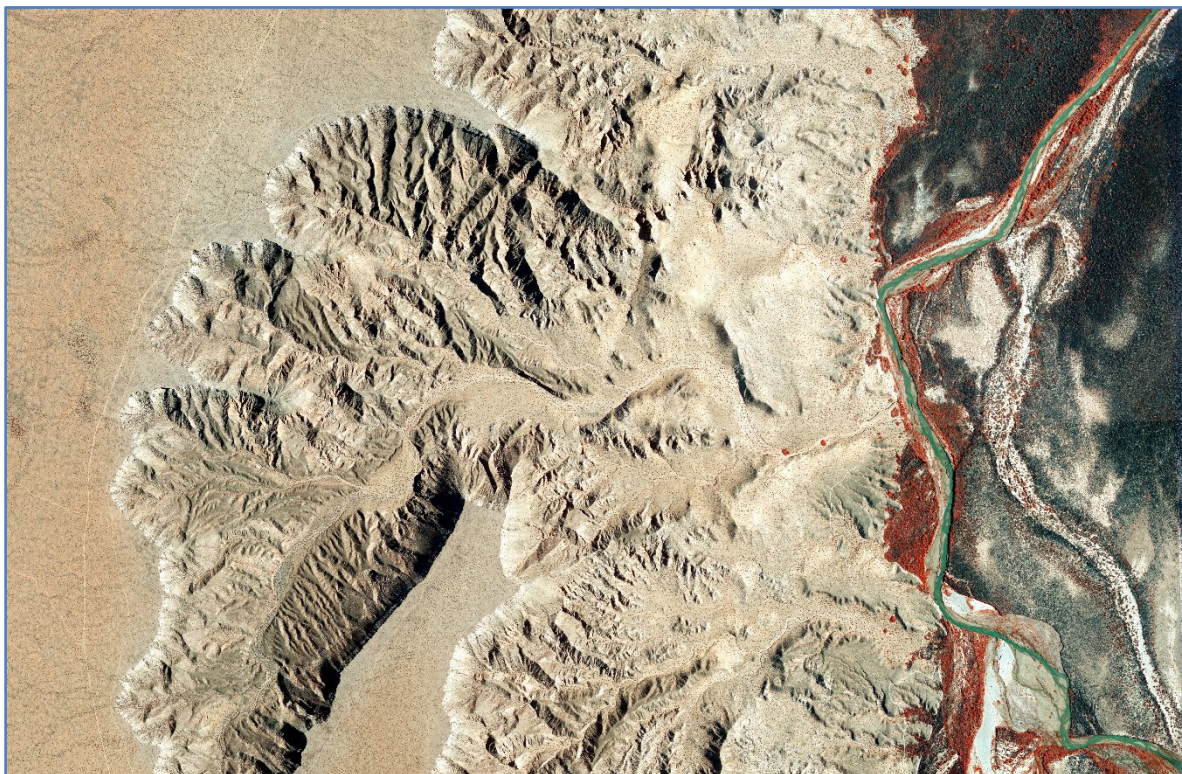
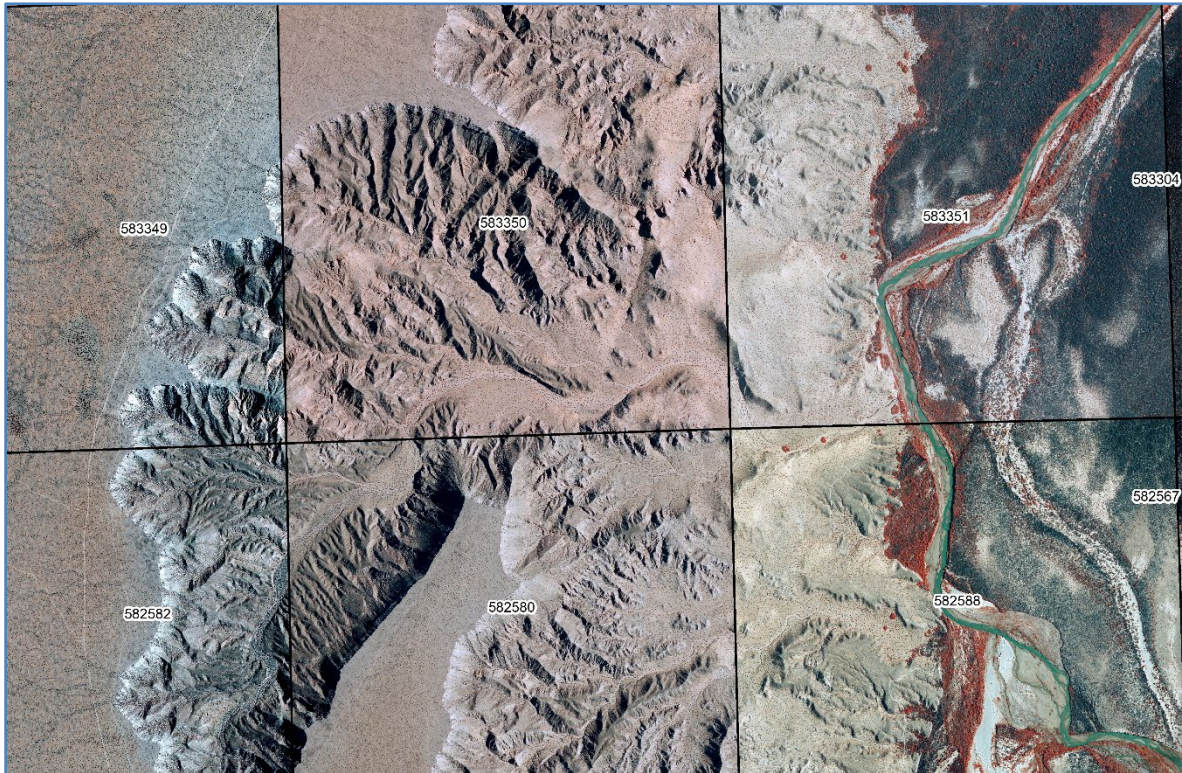
**Figure 1.** Vexcel Imagery Download and Processing Areas Map.



**Figure 2.** New Project Work Zones and Mapping Status Map.



**Figure 3.** Example of the Imagery Processing (downloaded tiles top and post-processing bottom).



**2. Problems and Issues:**

None at this time

**3. Activities Not Completed:**

Final editing of Work Zones 2 and 5 are being completed based on review and comments.

**4. Calculated Percent of Work Completed:**

Approximately 10% of the fine scale mapping has been completed.

**5. Problems with Future Project Activities:**

None at this time

**6. Other Items for DCP:**

None at this time

**7. Items Produced During this Time Period:**

- Fine Scale Mapping for Two Work Zones
- Editing of Fine Scale Mapping for Four Work Zones
- Minor Map Unit Revisions
- Quarterly Progress Report 2