

# Mosier Well Evaluations



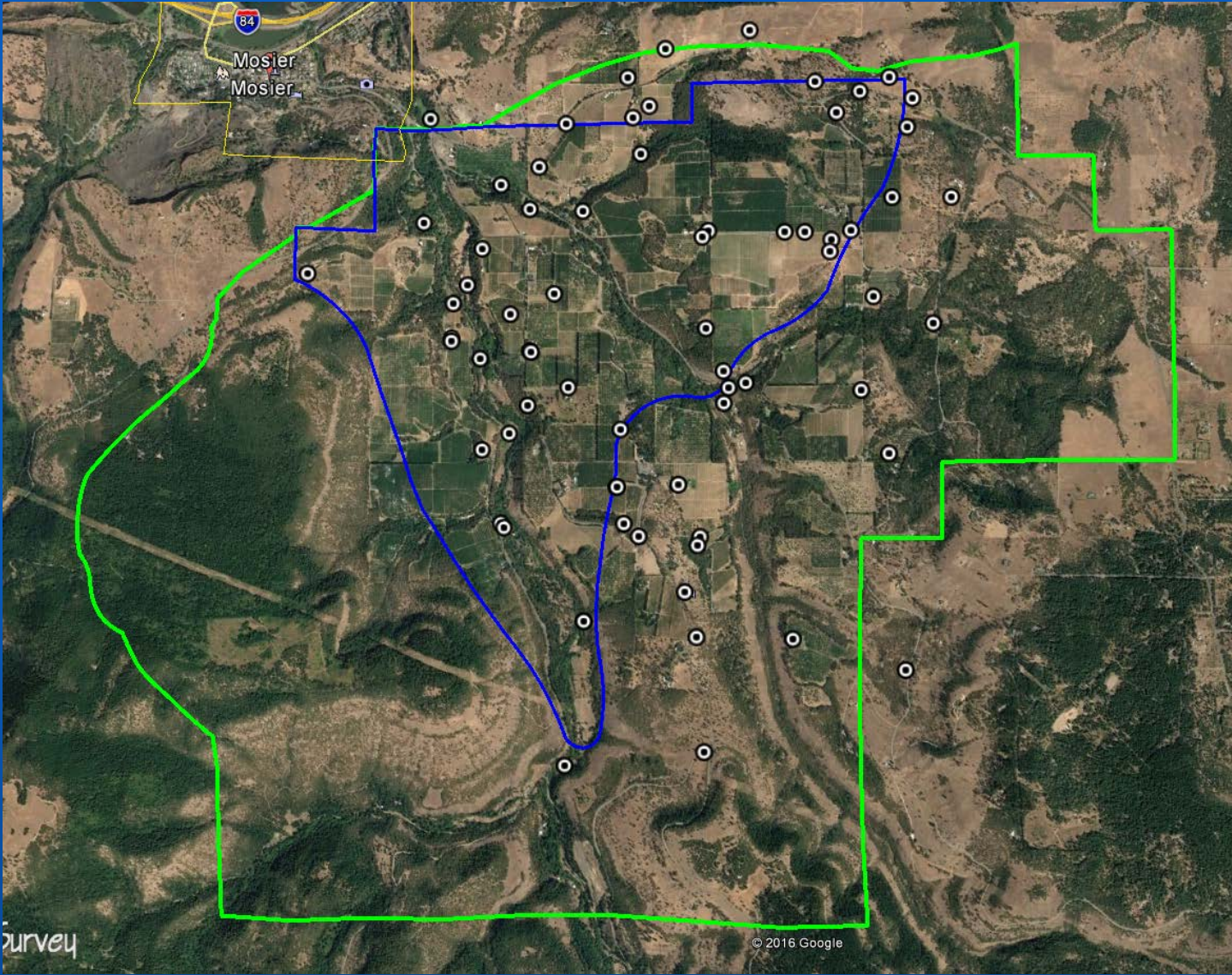
Mosier Watershed Council and Wasco County Soil & Water  
Conservation District

November 16, 2016

# Total Number of Wells to Date...




- ▶ Identified: 70
- ▶ Desktop Assessments Completed: 70
  - Not Commingling: 23
  - Well 24 was decommissioned in 2013
  - Potential for Commingling: 47
- ▶ Field Assessed: 28
  - GSI: 20
    - Well 57 has liner; water level taken but no video
    - Well 45 has liner
  - OWRD/USGS: 8
- ▶ Repaired: 1 (replaced)
- ▶ Remaining wells in need of follow up: 19

# Desktop Assessed Wells









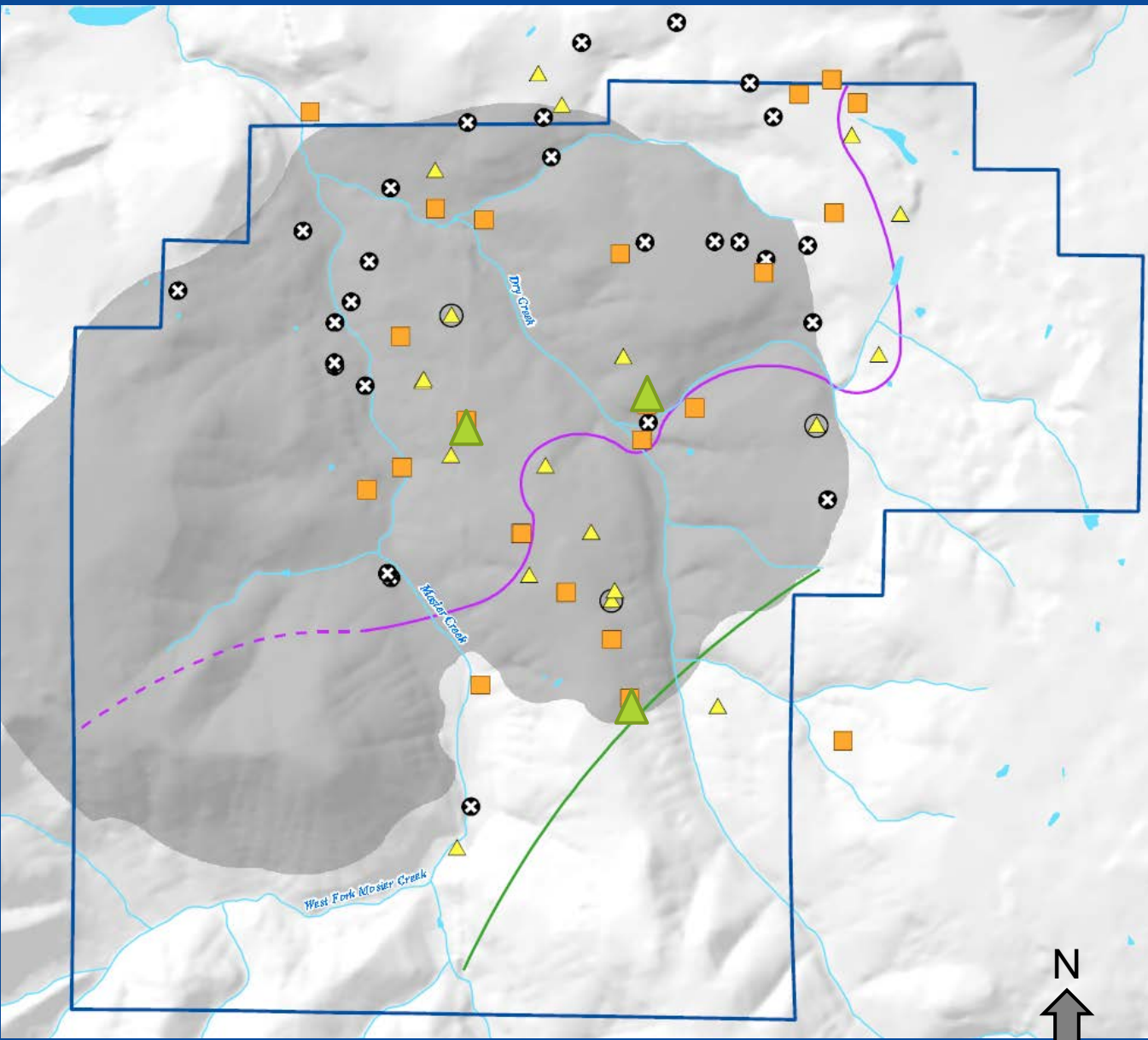


# Well Evaluation Status

-  Desktop and Field Evaluation Completed\*
-  Desktop Evaluation Completed
-  Unlikely Commingling Based on Desktop Assessment and/or Discussion with OWRD Staff

## All Other Features

-  Pomona/Priest Rapids Administrative Area
-  USGS Zone 1 Area
-  Approximate Location where Composite Groundwater Elevation Intersects the Priest Rapids Basalt Aquifer. The Priest Rapids Basalt Aquifer is Generally Saturated at Lower Elevations and Unsaturated at Higher Elevations.
-  Approximate Location where Composite Groundwater Elevation Intersects the Pomona Basalt Aquifer. The Pomona Aquifer is Generally Saturated at Lower Elevations and Unsaturated at Higher Elevations. (Dashed where Inferred)
-  Watercourse
-  Waterbody





# Repair and Replacement Prioritization Scheme

## Up-gradient proximity to the Rocky Prairie Thrust fault

- ▶ < 1/2 mile: 8 points
- ▶ 1/2-1 mile: 4 points
- ▶ > 1-2 miles: 2 points
- ▶ > 2 miles: 1 point

## Contributing Aquifer

- ▶ Columbia River Basalt: 4 points
- ▶ Dalles Formation: 2 points
- ▶ Other: 1 point

## Commingling Flow Rate (highest rate estimated)

- ▶ > 10 gallons per minute: 8 points
- ▶ 6-10 gallons per minute: 4 points
- ▶ 3-5 gallons per minute: 2 points
- ▶ 1-2 gallons per minute: 1 point
- ▶ No commingling: 0 points

Total Possible Points: 2 - 20