

# Dead Vegetation Classification

15 flight Areas



# Irrigated Areas

- Project focused on Green Vegetation Measurements
  - Turf
  - Trees and Shrubs
  - Pools
- Vendor did place dead vegetation into a category

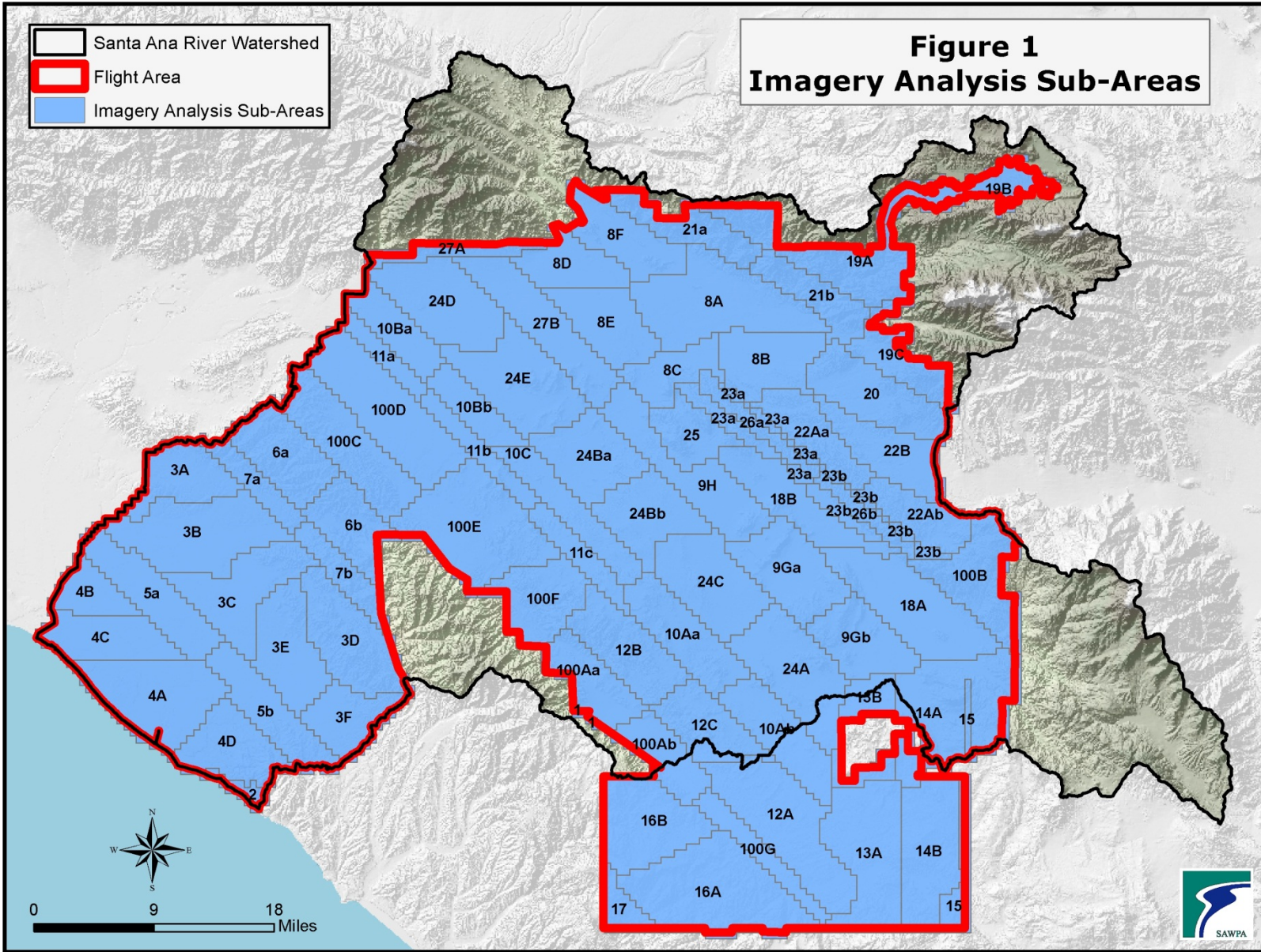


# Irrigable

- Irrigated area + Dead Vegetation

-  Santa Ana River Watershed
-  Flight Area
-  Imagery Analysis Sub-Areas

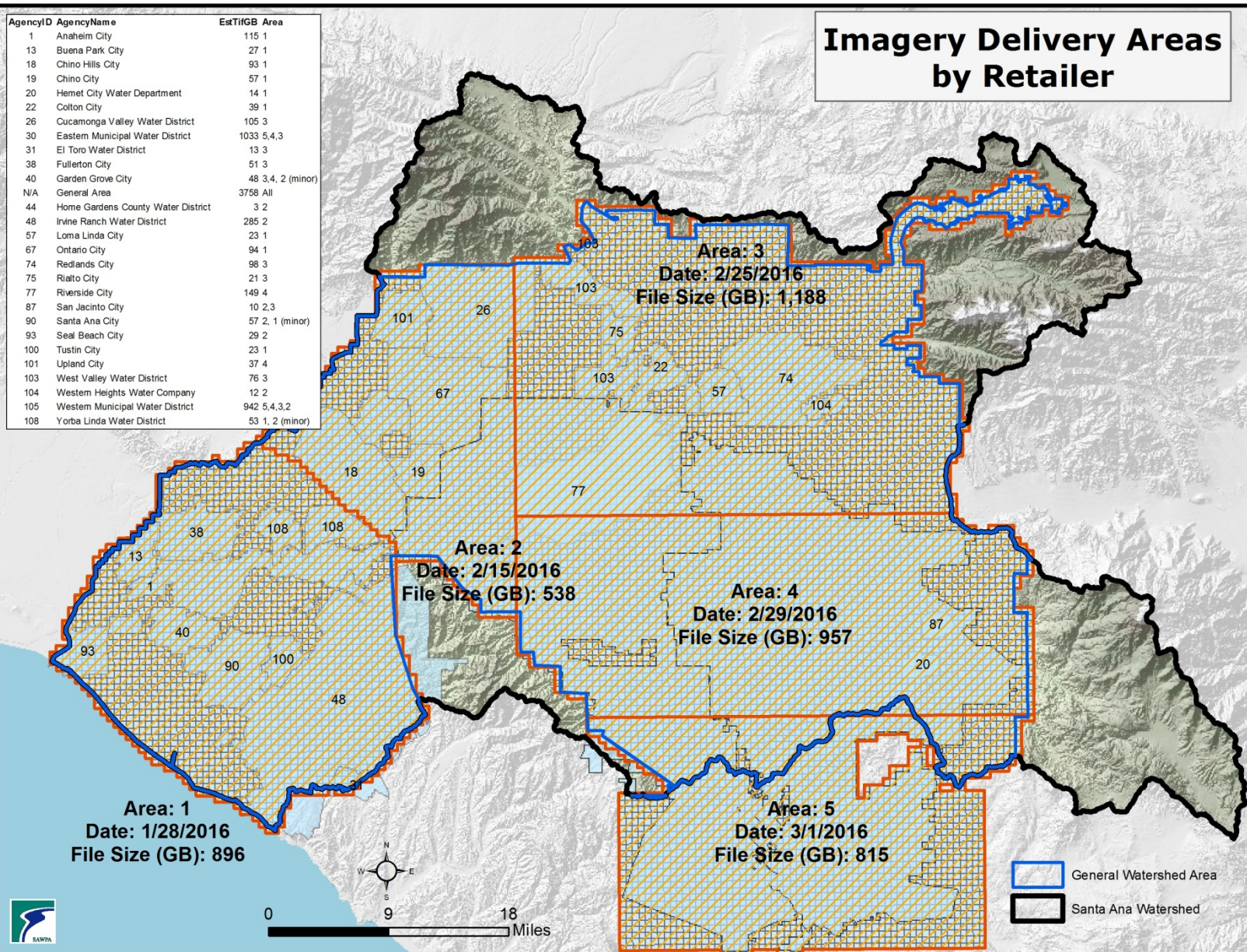
**Figure 1**  
**Imagery Analysis Sub-Areas**





# Imagery Delivery Areas by Retailer

AgencyID	AgencyName	EstTiGB Area
1	Anaheim City	115 1
13	Buena Park City	27 1
18	Chino Hills City	93 1
19	Chino City	57 1
20	Hemet City Water Department	14 1
22	Colton City	39 1
26	Cucamonga Valley Water District	105 3
30	Eastern Municipal Water District	1033 5,4,3
31	El Toro Water District	13 3
38	Fullerton City	51 3
40	Garden Grove City	48 3,4, 2 (minor)
N/A	General Area	3758 All
44	Home Gardens County Water District	3 2
48	Inline Ranch Water District	285 2
57	Loma Linda City	23 1
67	Ontario City	94 1
74	Redlands City	98 3
75	Rialto City	21 3
77	Riverside City	149 4
87	San Jacinto City	10 2,3
90	Santa Ana City	57 2, 1 (minor)
93	Seal Beach City	29 2
100	Tustin City	23 1
101	Upland City	37 4
103	West Valley Water District	76 3
104	Western Heights Water Company	12 2
105	Western Municipal Water District	942 5,4,3,2
108	Yorba Linda Water District	53 1, 2 (minor)



# Table of Supplier Measurements

SAWPA and Supplier Measurement Comparison				
Agency	Supplier Measured	SAWPA Measurement	Dead Veg	All Veg -SAWPA Total
East ValleyWD	90,186,152	64,797,169	30,816,658	95,613,827
Eastern MWD	523,778,460	284,496,477	407,692,886	692,189,363
Irvine Ranch Water District	124,316,576	145,897,624	106,040,344	251,937,968
Western Municipal	199,823,127	94,792,904	105,894,147	200,687,051





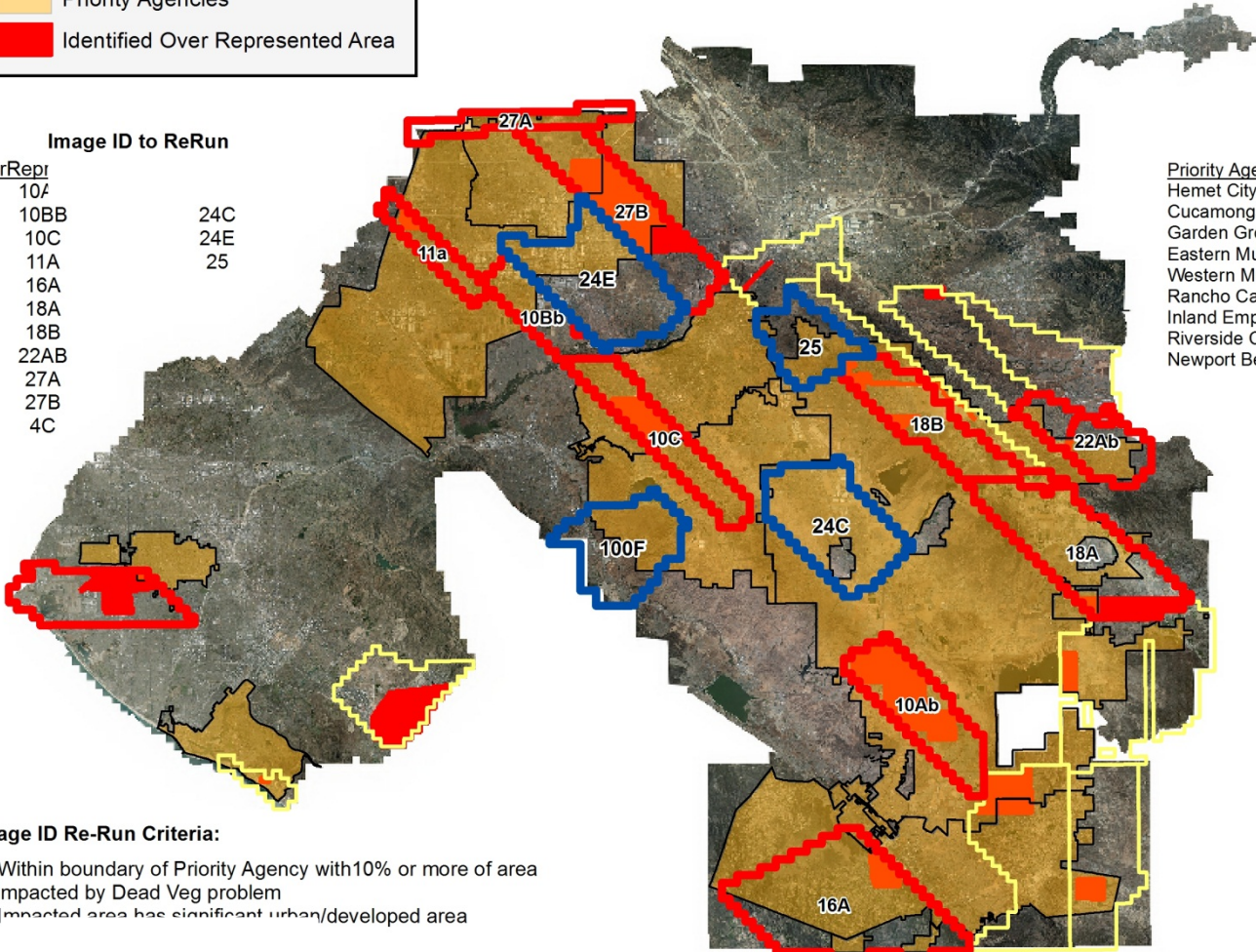
# Image IDs to Correct for Dead Veg

- Under Represented Re-Run (4)
- Over Represented Re-Run (11)
- Over Represented No Re-Run
- Priority Agencies
- Identified Over Represented Area

**Image ID to ReRun**

OverRepr	Image ID
10F	
10BB	24C
10C	24E
11A	25
16A	
18A	
18B	
22AB	
27A	
27B	
4C	

- Priority Agencies:  
 Hemet City Water Department  
 Cucamonga Valley Water District  
 Garden Grove City  
 Eastern Municipal Water District  
 Western Municipal Water District  
 Rancho California Water District  
 Inland Empire Utilities Agency  
 Riverside City  
 Newport Beach City



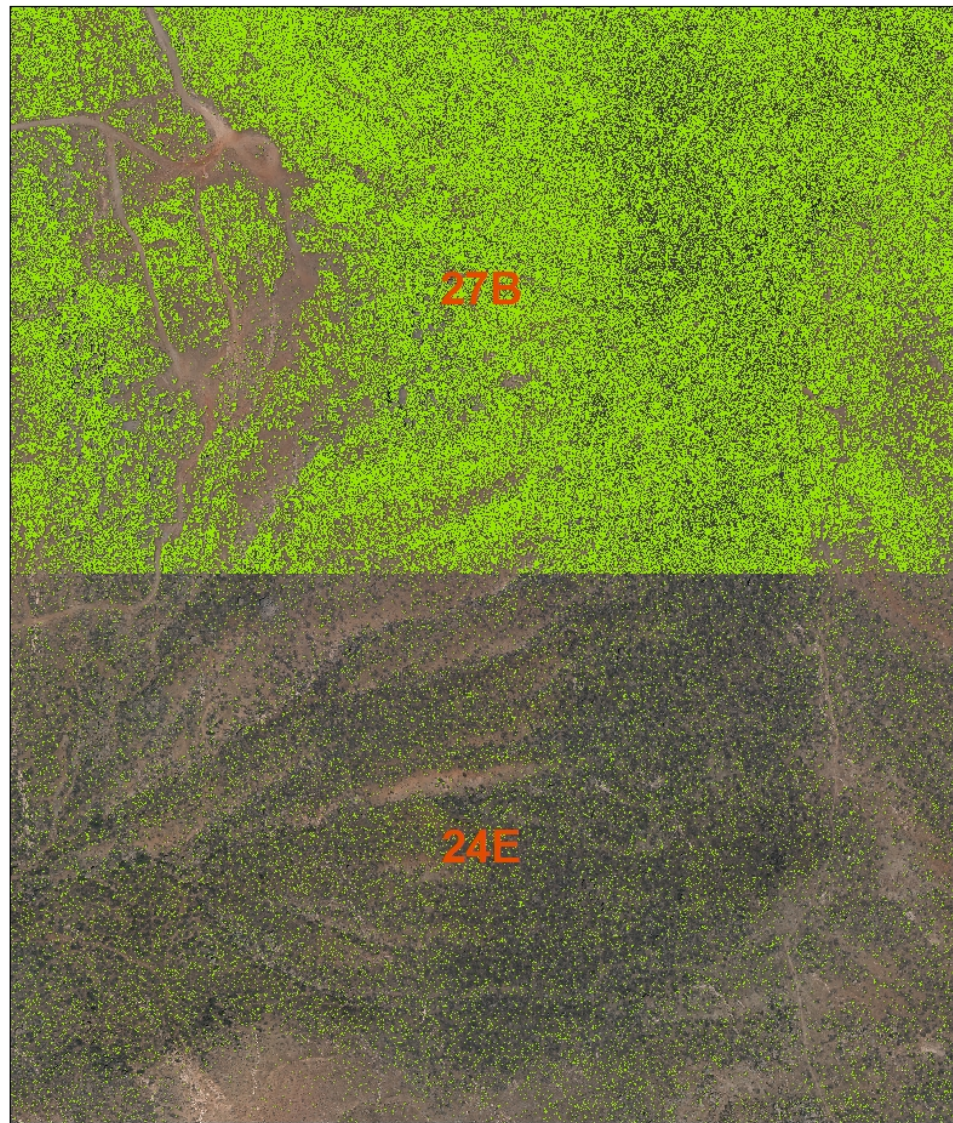
**Image ID Re-Run Criteria:**

- 1) Within boundary of Priority Agency with 10% or more of area impacted by Dead Veg problem
- 2) Impacted area has significant urban/developed area



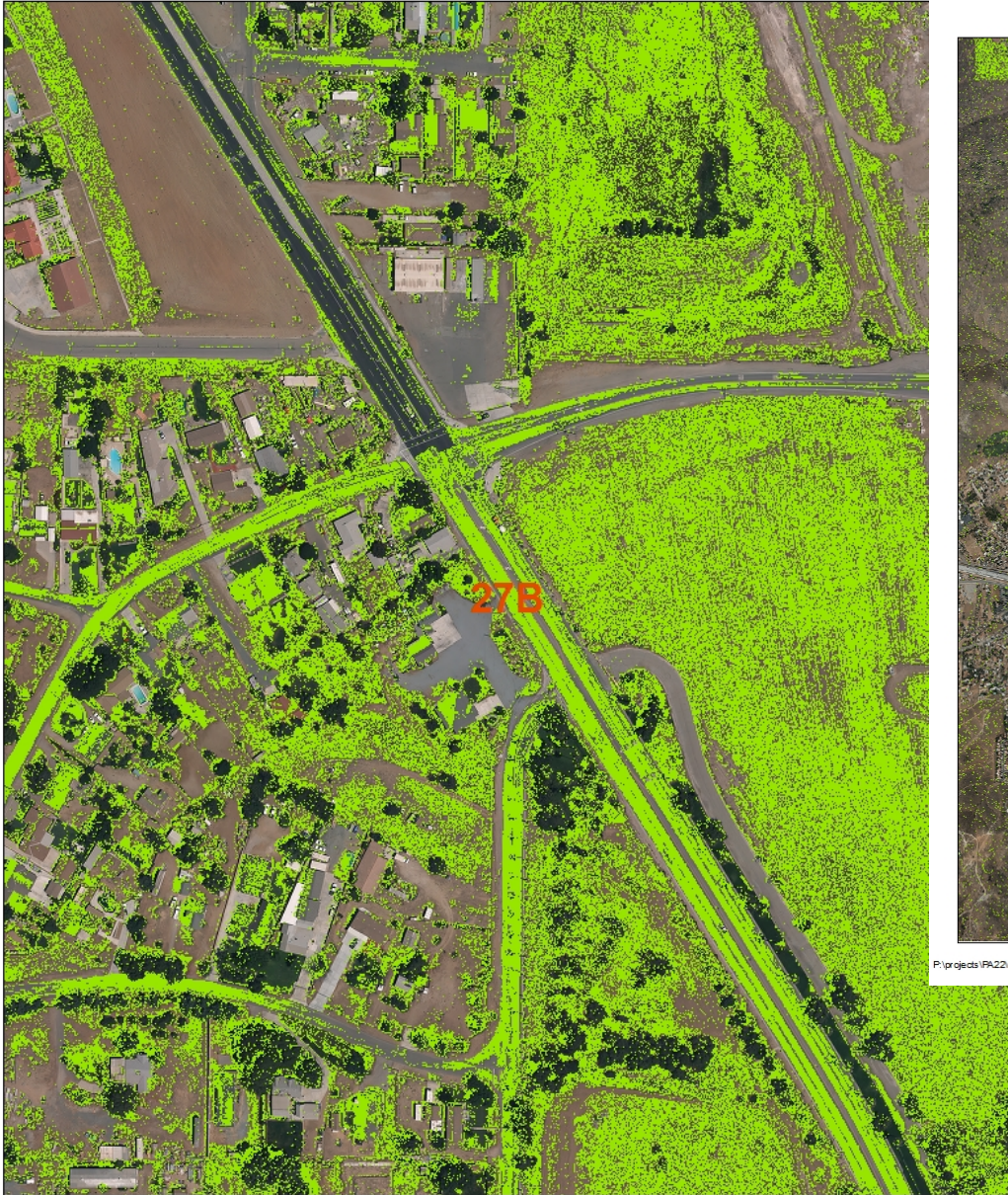


# Under Count





# Overrepresented Dead Veg



# Dead Vegetation Outliers





# RECOMMENDATION

- Approve Task Order SRI504-301-03 with Statistical Research, Inc. (SRI), in an amount not to exceed \$35,043 to provide dead vegetation calculations in the 15 flight areas that have been identified with high concentrations of natural open space, bringing the new total for SRI to \$245,521.

