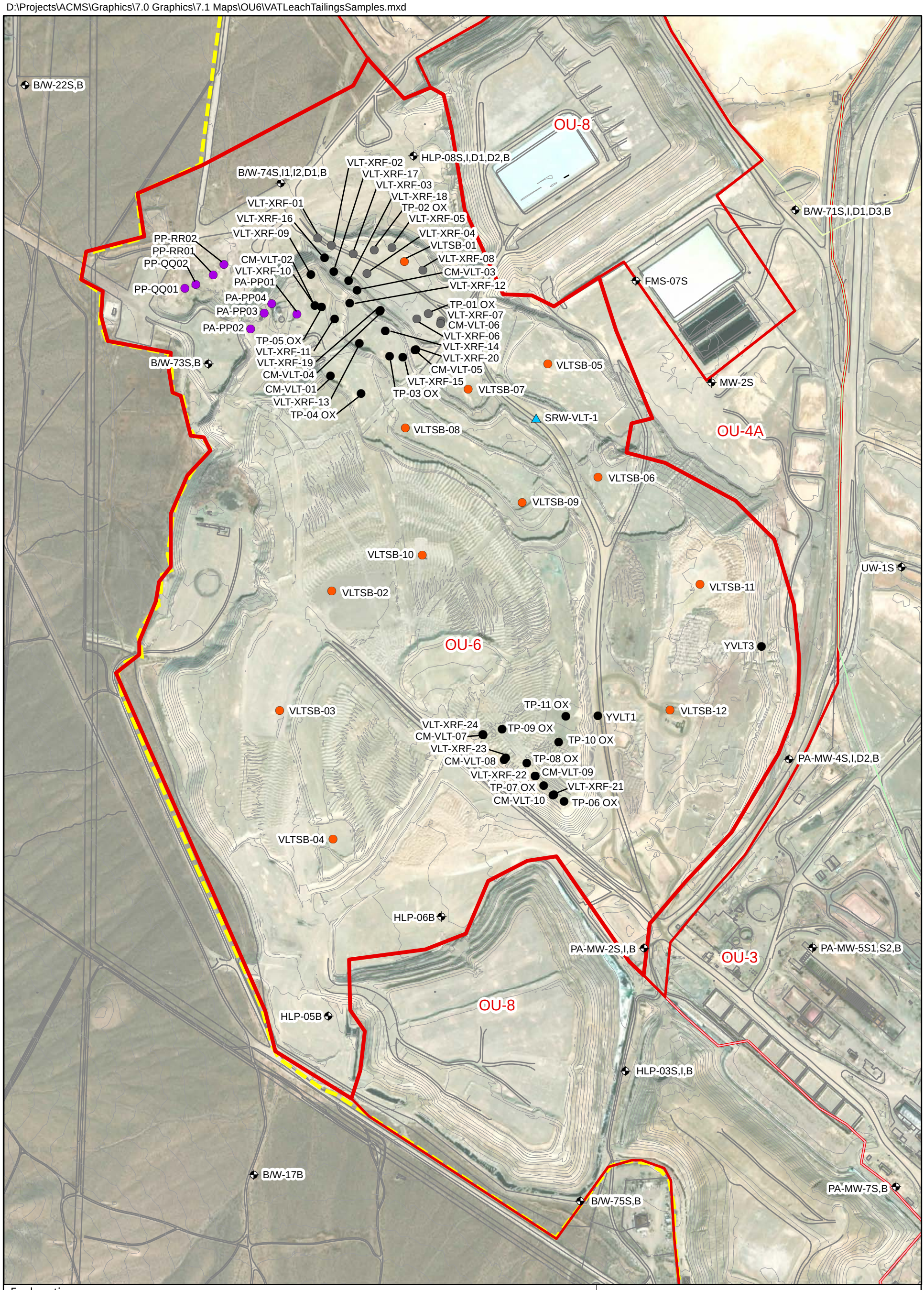
D:\Projects\ACMS\Graphics\7.0 Graphics\7.1 Maps\OU6\VATLeachTailingsSamples.mxd



Explanation:

- Existing Monitoring Well Location
- Standing Rain Water Sample Collected in 2013
- VLT Sample Location Collected in 2018
- VLT Sample Location Collected in 2010
- VLT Sample Location Associated with 2005 Process Area Investigation
- VLT Sample Locations Removed in 2010 During VLT Material Excavation for Evaporation Pond Removal Action
- OU Boundary
- ACMS Boundary

Notes:
1. All locations and boundaries are approximate.
2. Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

0 250 500 Feet

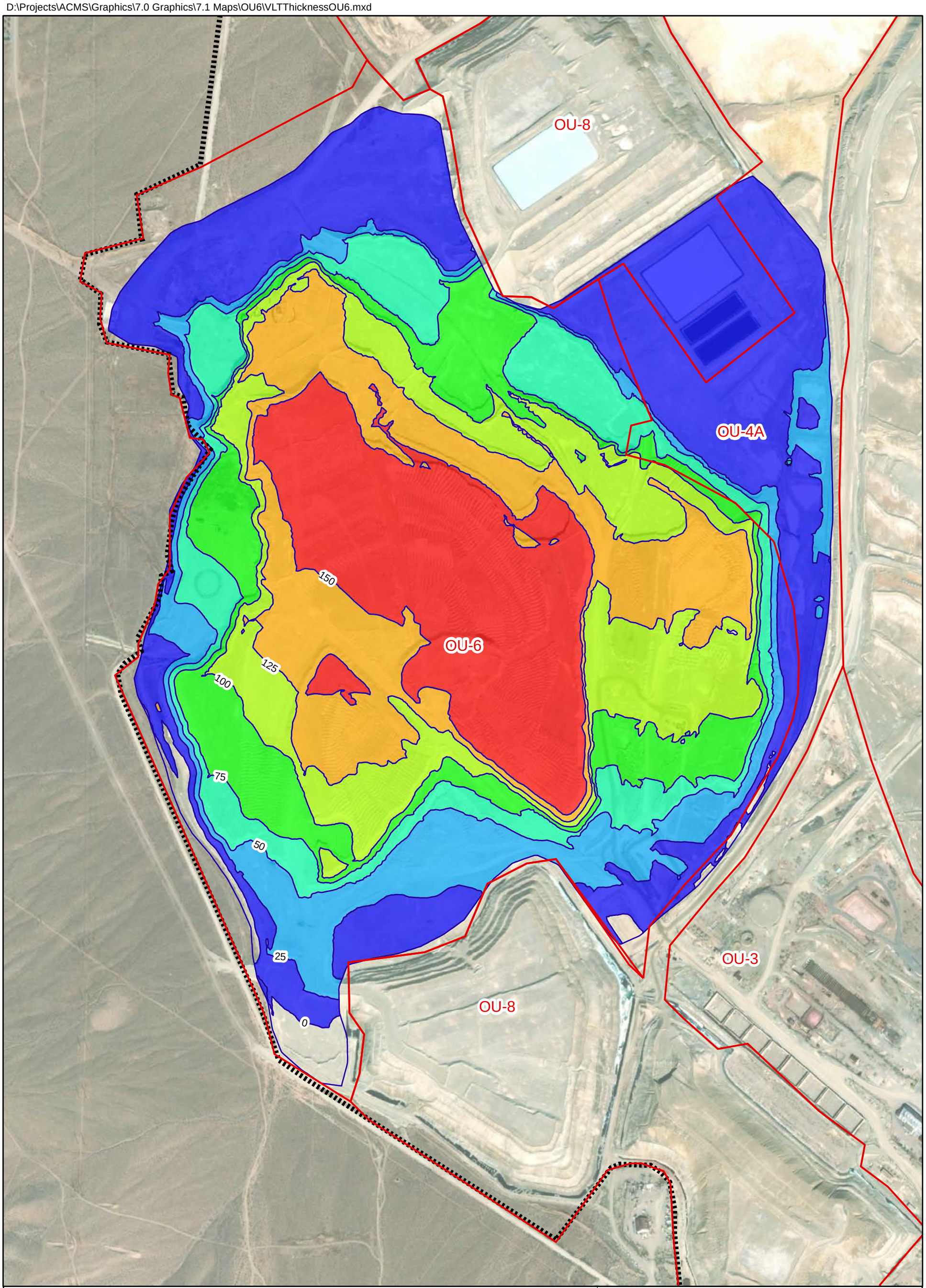
N

OU-6
VAT LEACH TAILINGS SAMPLE LOCATIONS
Anaconda Copper Mine Site
Lyon County, Nevada

wood.

By: DPV	Proj. No. SA18170340
Date: 3/12/2021	Figure 6-1

D:\Projects\ACMS\Graphics\7.0 Graphics\7.1 Maps\OU6\VLTThicknessOU6.mxd



Explanation:

OU Boundary

Mine Site Boundary

Thickness Range (ft)

- 0-25
- 25-50
- 50-75
- 75-100
- 100-125
- 125-150
- 150-188

Notes:
1. All locations and boundaries are approximate.
2. Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

0 250 500 Feet

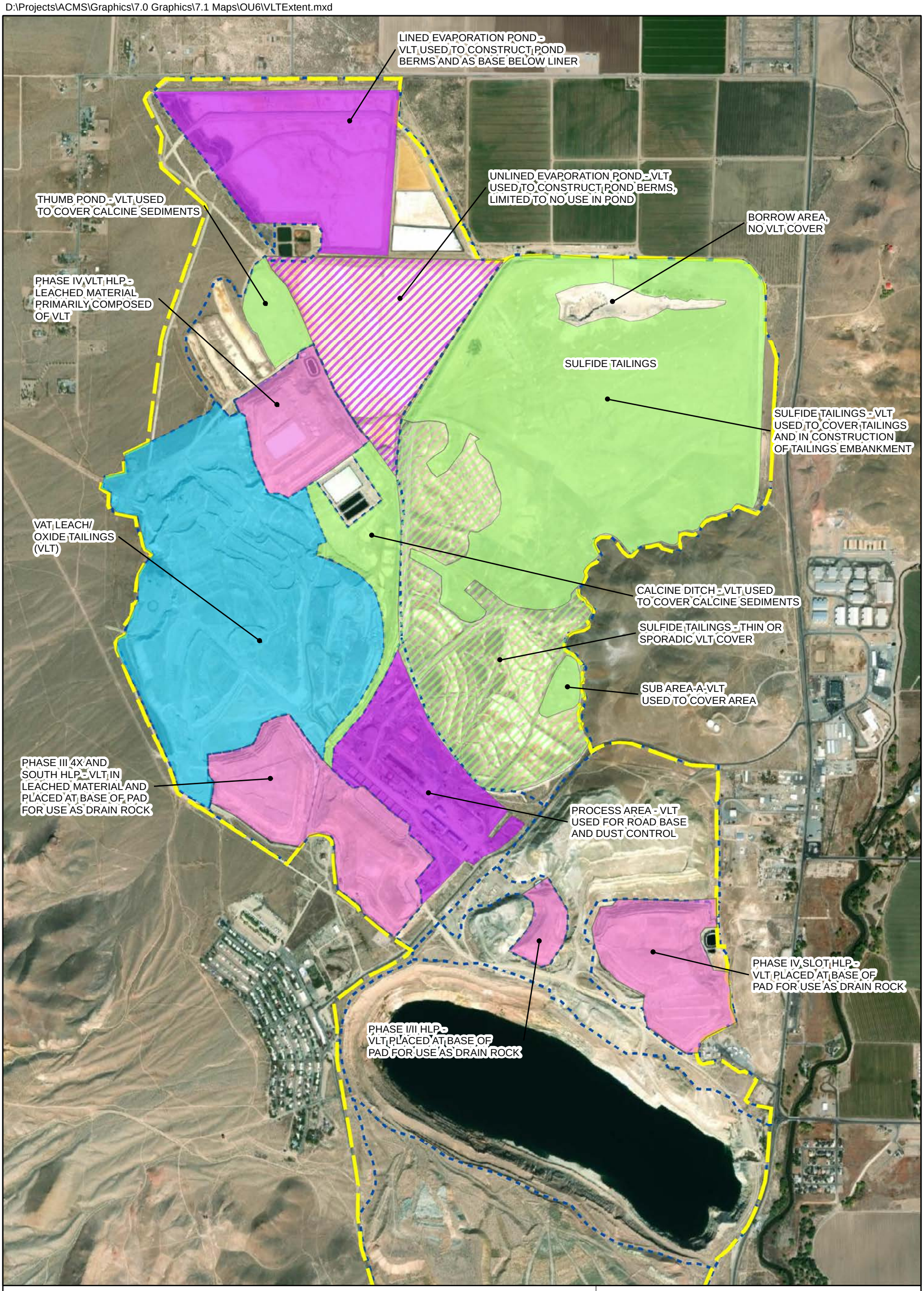
N

VLT THICKNESS IN OU-6
Anaconda Copper Mine Site
Lyon County, Nevada

wood.

By: DPV	Proj. No. SA18170340
Date: 2/26/2021	Figure **6-2**

D:\Projects\ACMS\Graphics\7.0 Graphics\7.1 Maps\OU6\VLTExtent.mxd



Explanation

- VLT Operable Unit (OU-6)
- VLT used as a cover material
- VLT Cover is Thin or Used Sporadically
- VLT used in Heap Leach Pads
- VLT used for Construction Purposes or for Dust Suppression
- Limited VLT Use
- ACMS Boundary
- OU Boundary

Note: All locations and boundaries are approximate.

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

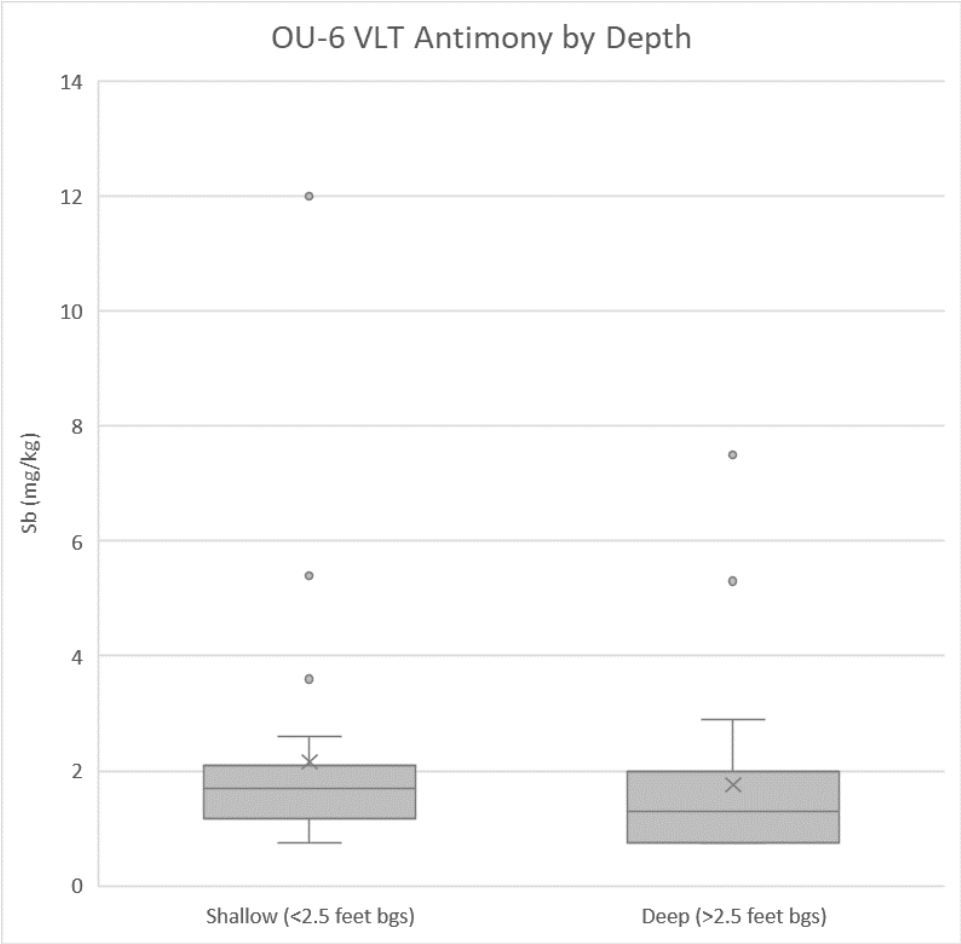
N

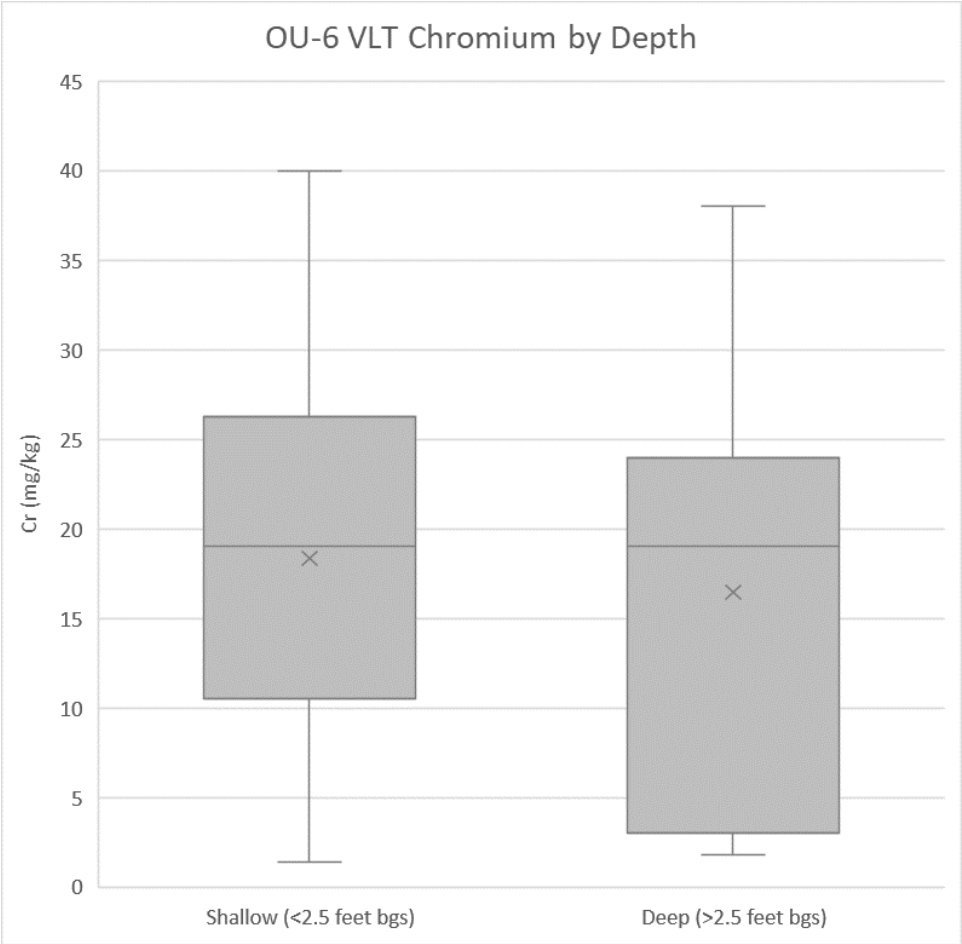
0 1,000 2,000 Feet

APPROXIMATE USE AND EXTENT OF VLT WITHIN THE MINE SITE
Anaconda Copper Mine Site
Yerington, Nevada

wood.

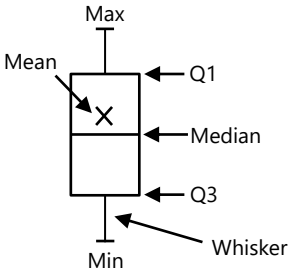
Date: 2/26/2021	Proj. No. SA18170340	
By: DPV	Figure	6-3





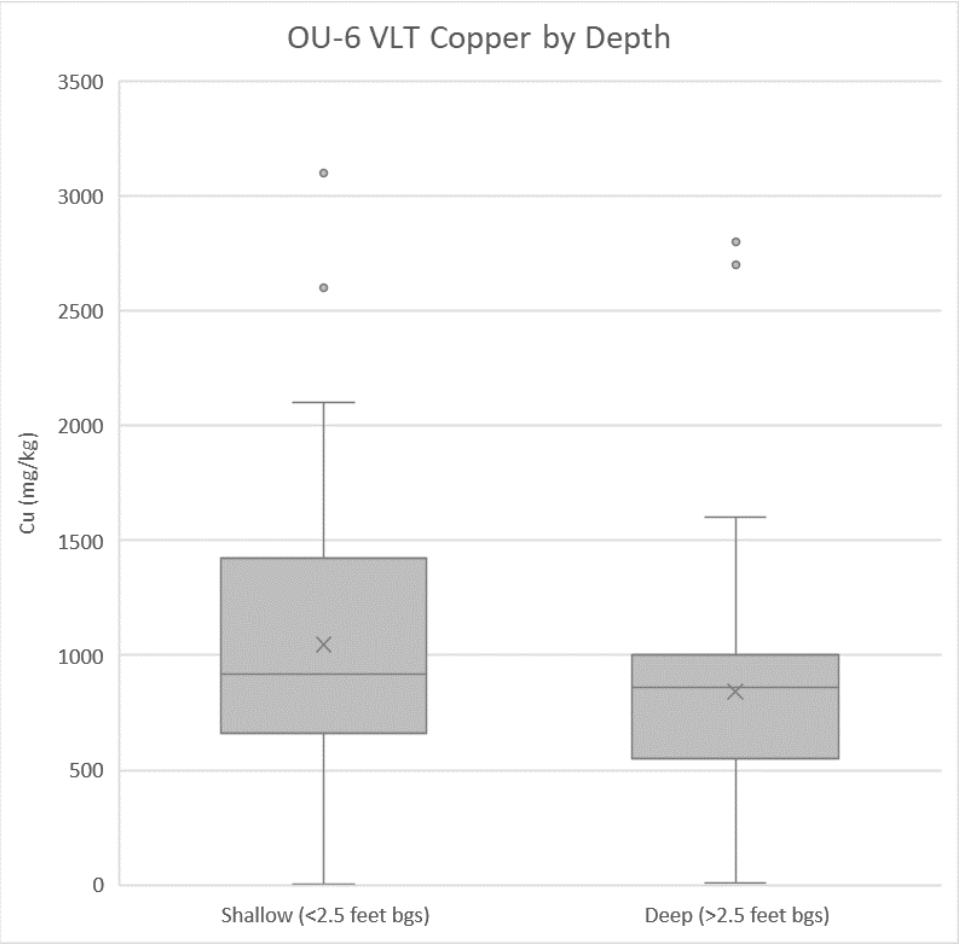
Notes:

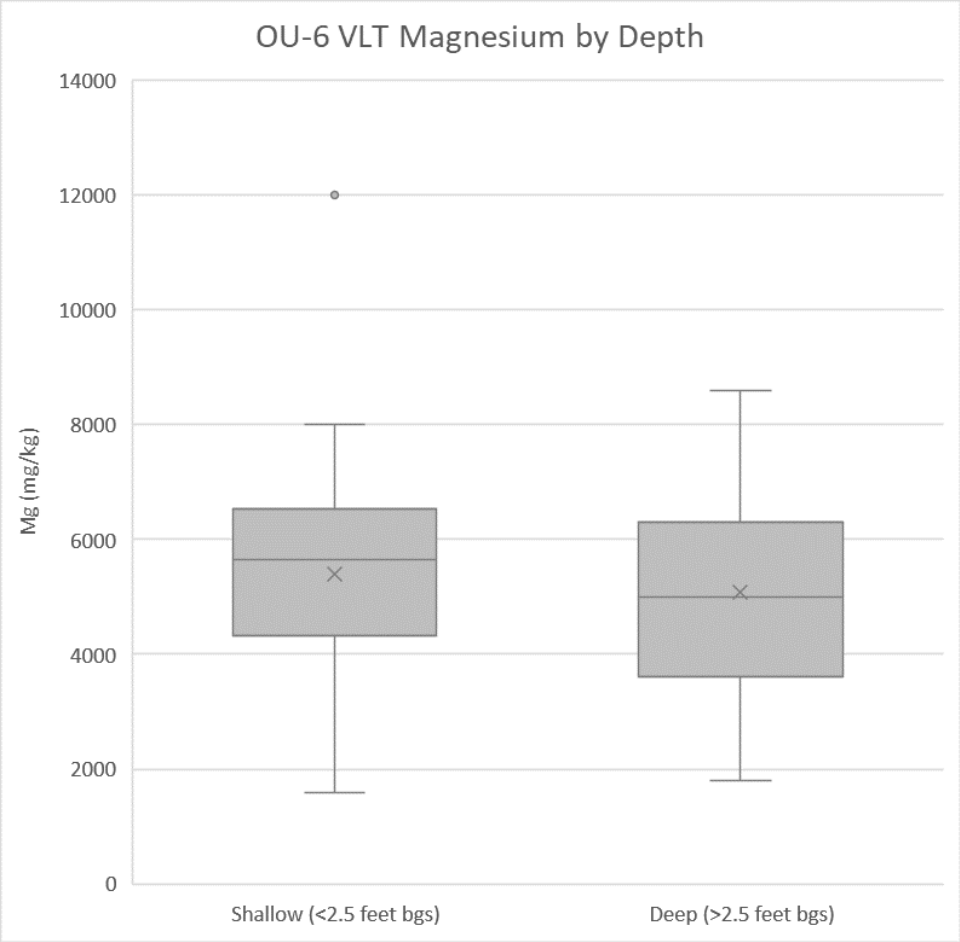
1) Data are from the 2005 and 2010 investigations and are reported in milligrams per kilogram (mg/kg)
2) Depth groupings are defined as follows:
   Shallow = Samples collected between 0 and 2.5 feet below ground surface (bgs)
   Deep = Samples collected deeper than 2.5 feet bgs
3) Data points shown outside the box plot were greater than 1.5x the interquartile range and are considered outliers.



CONCENTRATIONS OF ANTIMONY AND CHROMIUM IN OU-6 VLT BY DEPTH
Anaconda Copper Mine Site
Lyon County, Nevada

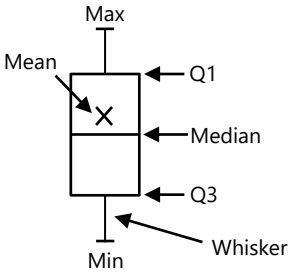
wood.	Date: 02/24/21	Project No. SA18170340
	By: JG	**Figure 6-4**





Notes:

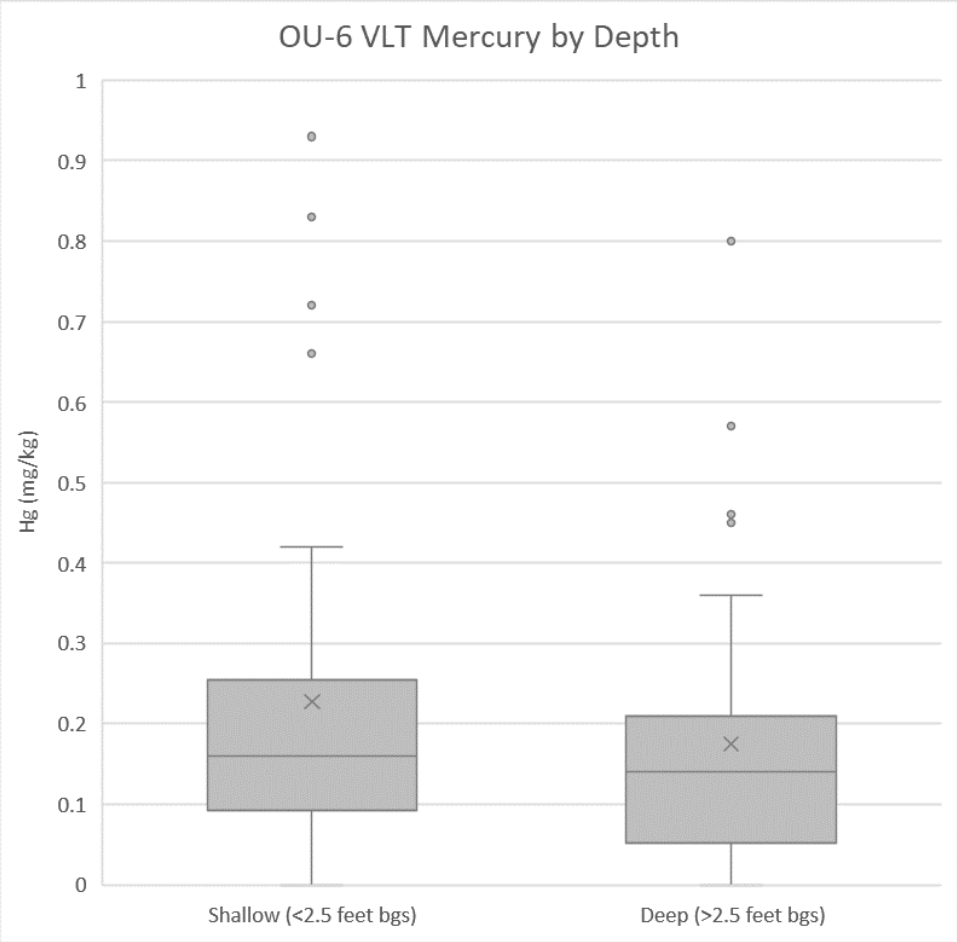
1) Data are from the 2005 and 2010 investigations and are reported in milligrams per kilogram (mg/kg)
2) Depth groupings are defined as follows:
   Shallow = Samples collected between 0 and 2.5 feet below ground surface (bgs)
   Deep = Samples collected deeper than 2.5 feet bgs
3) Data points shown outside the box plot were greater than 1.5x the interquartile range and are considered outliers.

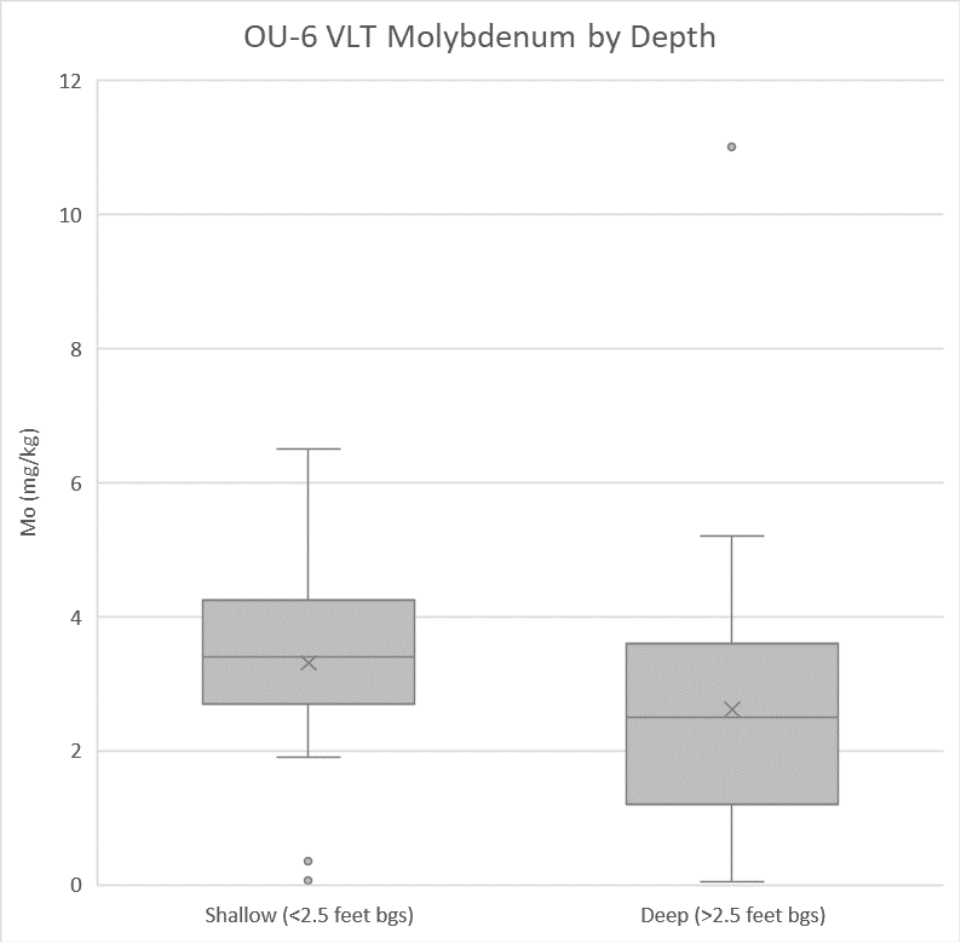


CONCENTRATIONS OF COPPER AND MAGNESIUM IN OU-6 VLT BY DEPTH
Anaconda Copper Mine Site
Lyon County, Nevada

wood.

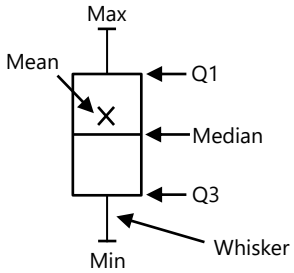
Date: 02/24/21	Project No. SA18170340
By: JG	**Figure 6-5**





Notes:

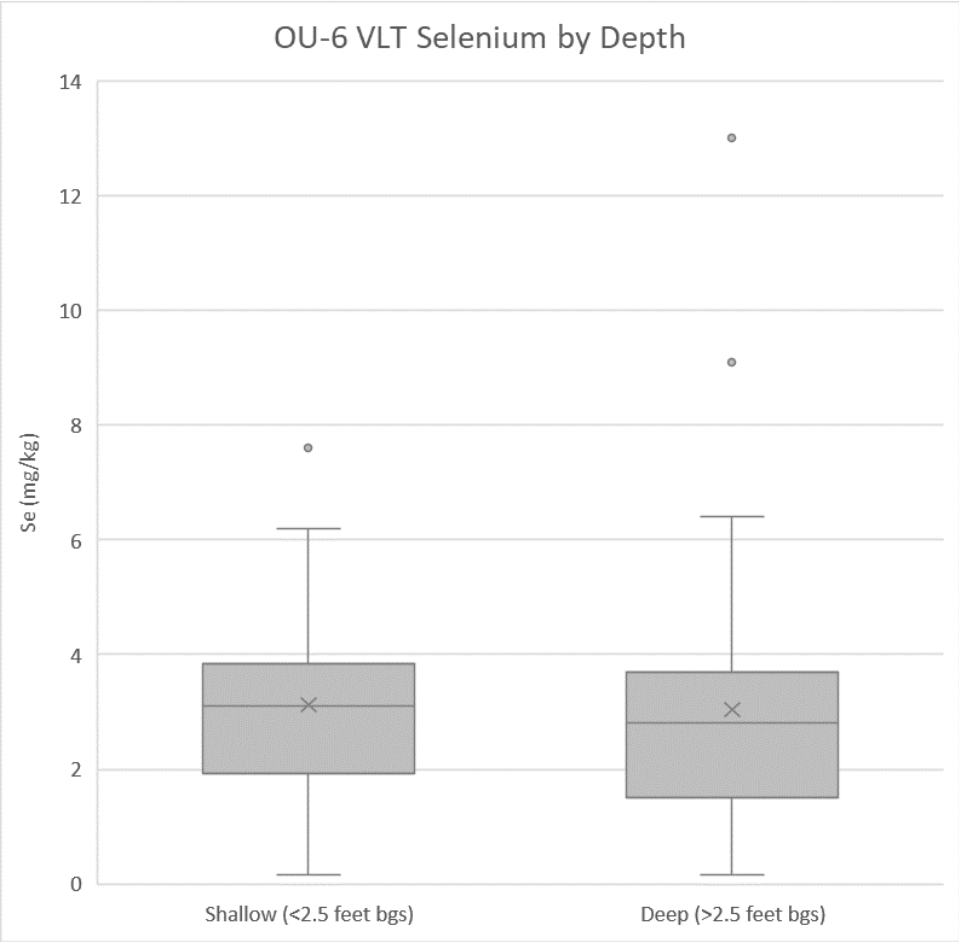
1) Data are from the 2005 and 2010 investigations and are reported in milligrams per kilogram (mg/kg)
2) Depth groupings are defined as follows:
   Shallow = Samples collected between 0 and 2.5 feet below ground surface (bgs)
   Deep = Samples collected deeper than 2.5 feet bgs
3) Data points shown outside the box plot were greater than 1.5x the interquartile range and are considered outliers.



CONCENTRATIONS OF MERCURY AND MOLYBDENUM IN OU-6 VLT BY DEPTH
Anaconda Copper Mine Site
Lyon County, Nevada

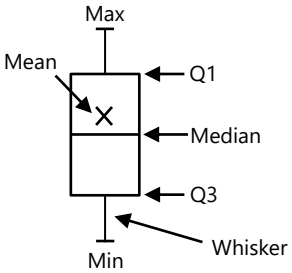
wood.

Date: 02/24/21	Project No. SA18170340
By: JG	**Figure 6-6**



Notes:

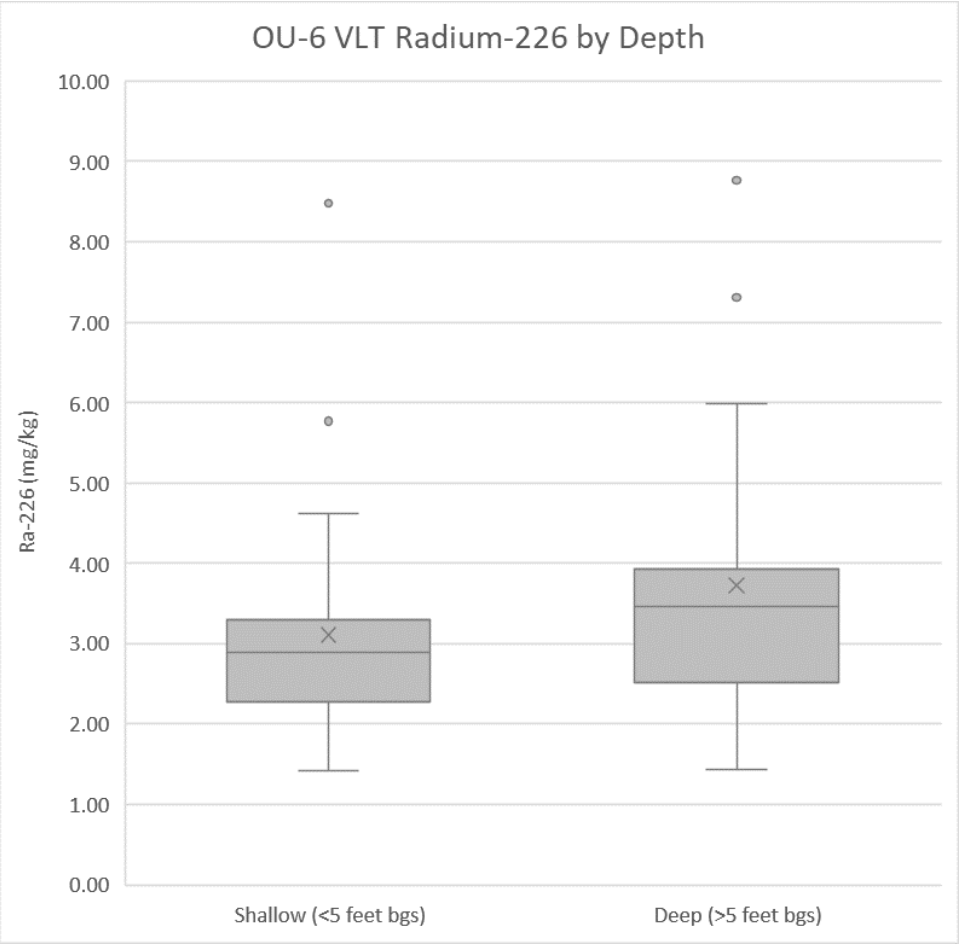
1) Data are from the 2005 and 2010 investigations and are reported in milligrams per kilogram (mg/kg)
2) Depth groupings are defined as follows:
   Shallow = Samples collected between 0 and 2.5 feet below ground surface (bgs)
   Deep = Samples collected deeper than 2.5 feet bgs
3) Data points shown outside the box plot were greater than 1.5x the interquartile range and are considered outliers.

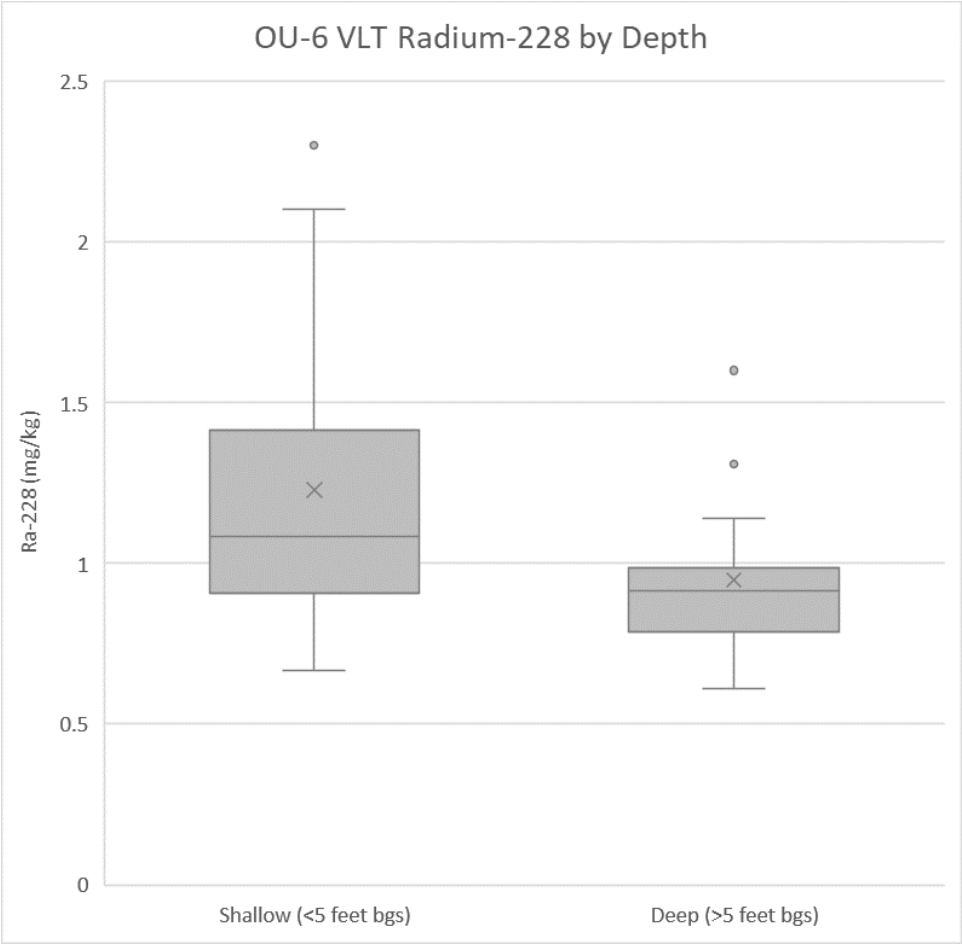


CONCENTRATIONS OF SELENIUM IN OU-6 VLT BY DEPTH
Anaconda Copper Mine Site
Lyon County, Nevada

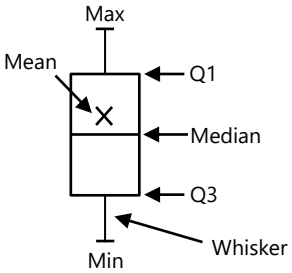
wood.

Date: 02/24/21	Project No. SA18170340
By: JG	**Figure 6-7**





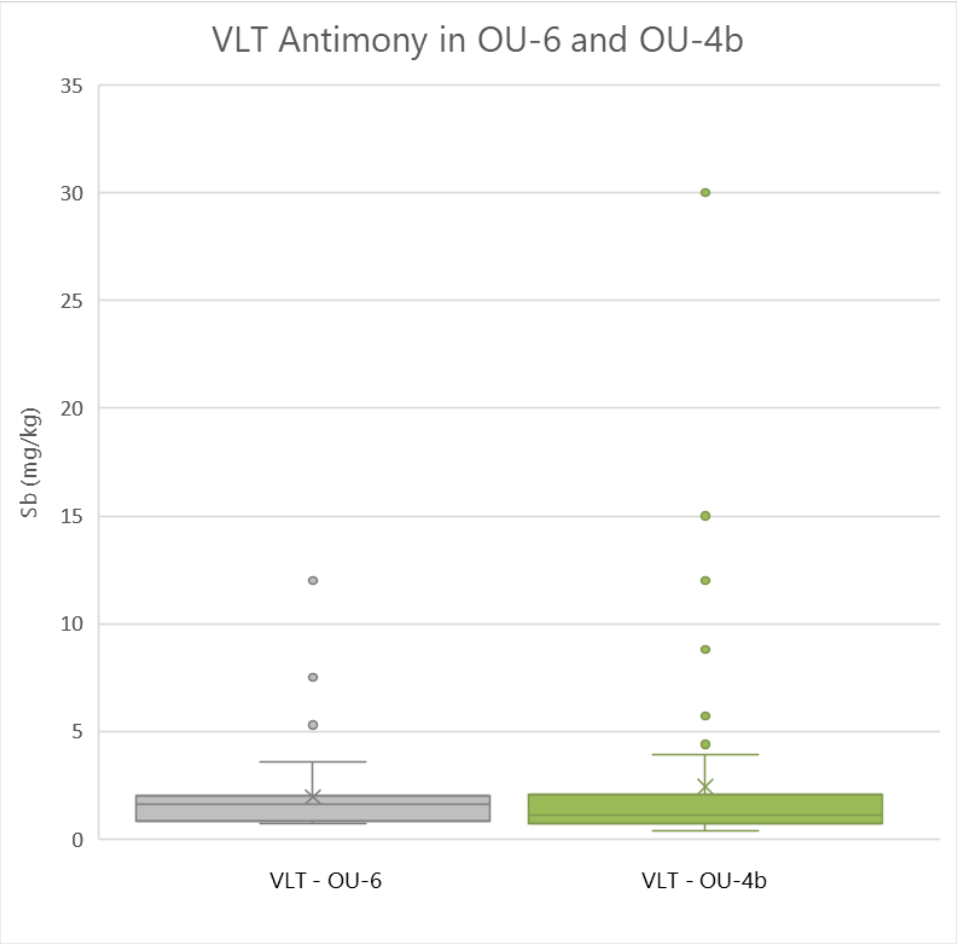
Notes:
1) Data are from the 2005 and 2010 investigations and are reported in picocuries per gram (pCi/g)
2) Depth groupings are defined as follows:
   Shallow = Samples collected between 0 and 5 feet below ground surface (bgs)
   Deep = Samples collected deeper than 5 feet bgs
3) Data points shown outside the box plot were greater than 1.5x the interquartile range and are considered outliers.

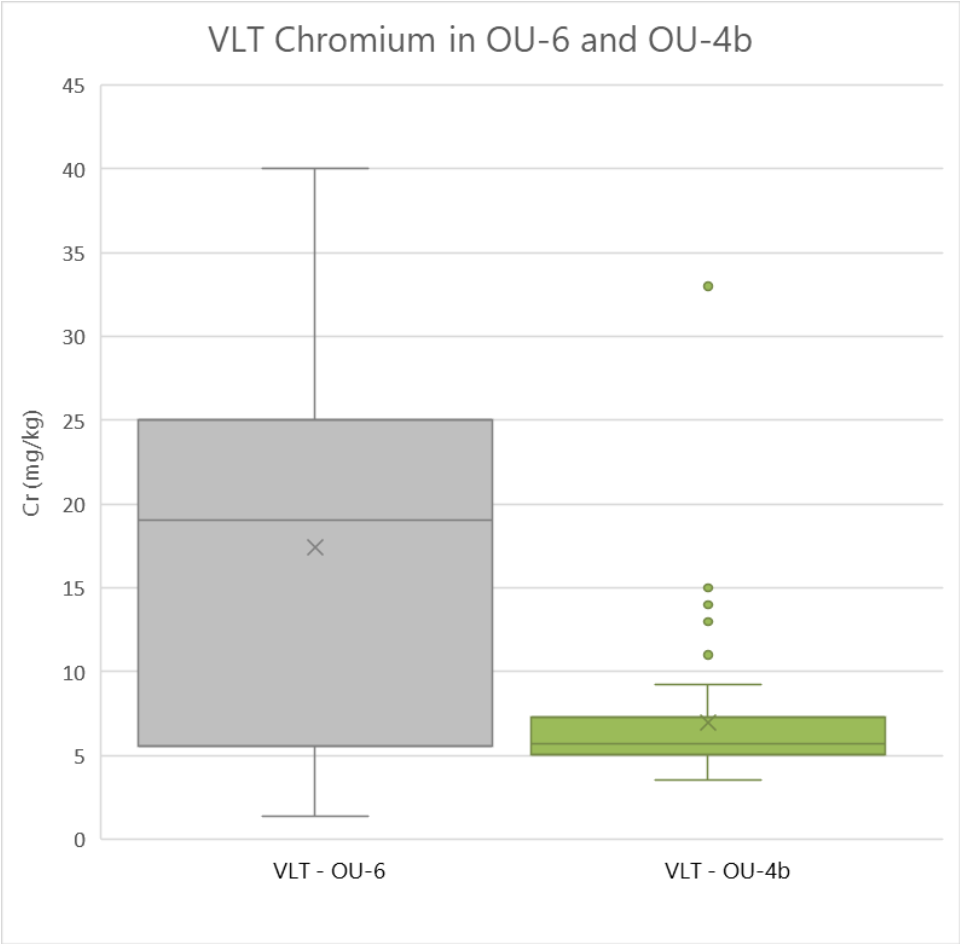


CONCENTRATIONS OF RADIUM-226 AND RADIUM-228 IN OU-6 VLT BY DEPTH
Anaconda Copper Mine Site
Lyon County, Nevada

wood.

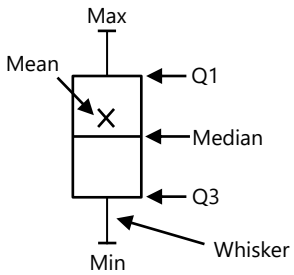
Date: 02/24/21	Project No. SA18170340
By: JG	**Figure 6-8**





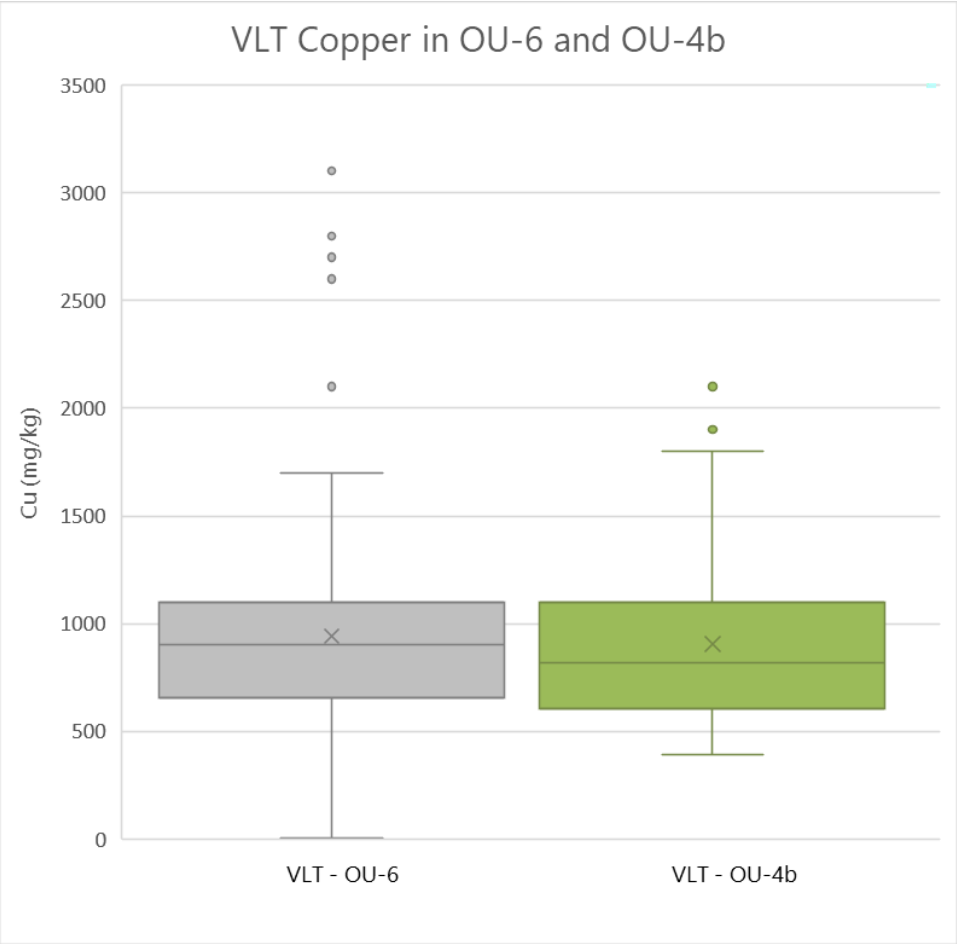
Notes:

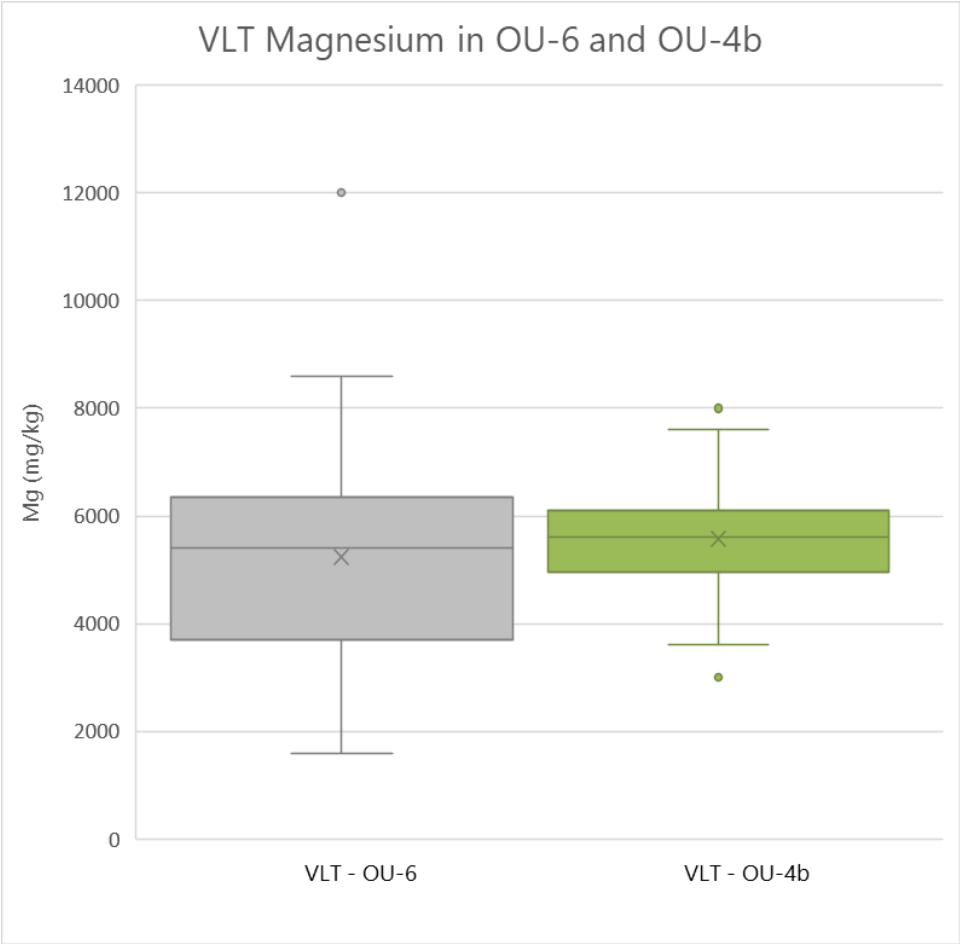
1) Data are from the 2005, 2010, and 2019-2020 investigations and are reported in milligrams per kilogram (mg/kg)
2) Material groupings are defined as follows:
   VLT – OU-6 = 2005 and 2010 VLT samples
   VLT – OU-4b = 2019-2020 VLT samples
3) Data points shown outside the box plot were greater than 1.5x the interquartile range and are considered outliers.



CONCENTRATIONS OF ANTIMONY AND CHROMIUM IN VLT FROM OU-4b AND OU-6
Anaconda Copper Mine Site
Lyon County, Nevada

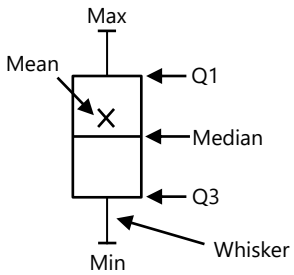
wood.	Date: 09/09/20	Project No. SA18170340
	By: JG	**Figure 6-9**





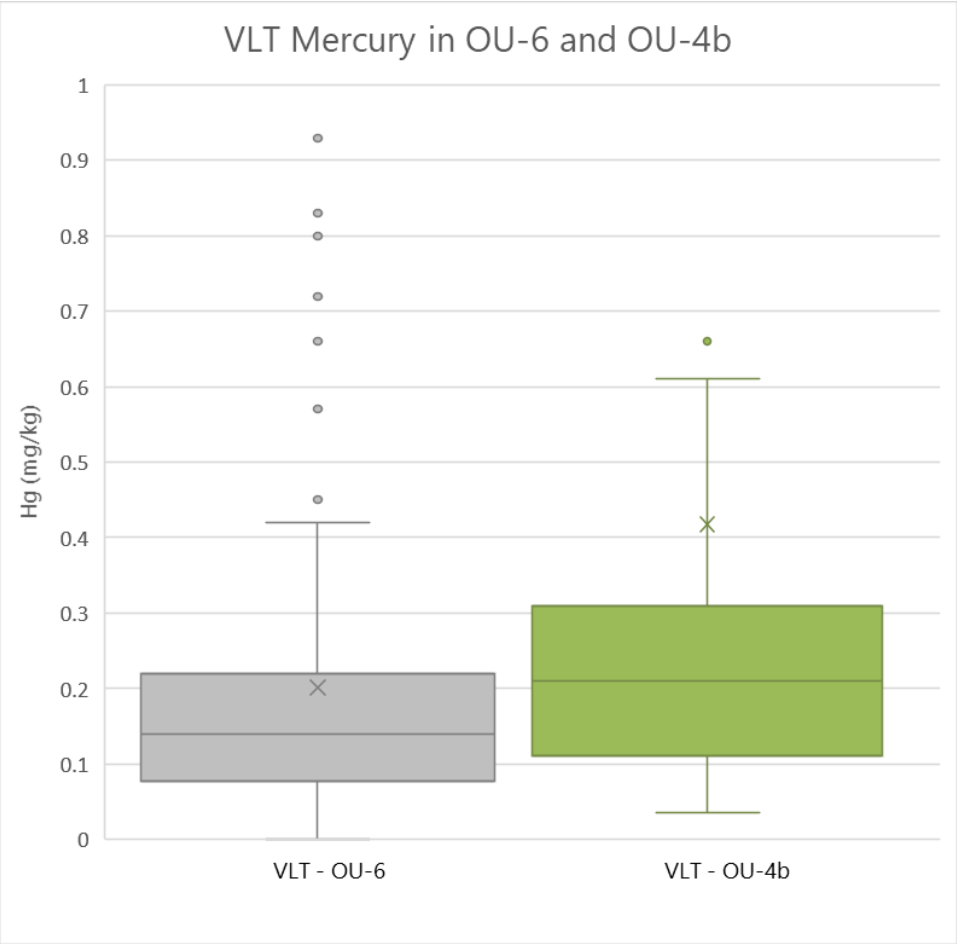
Notes:

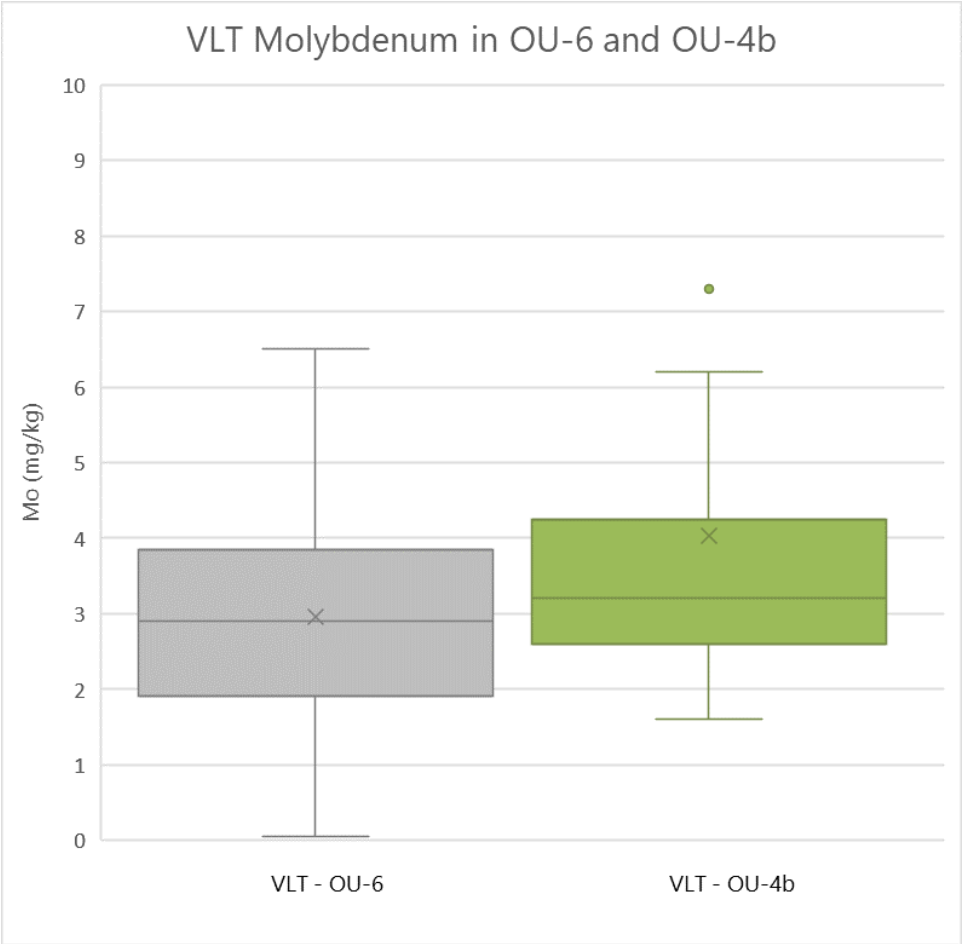
1) Data are from the 2005, 2010, and 2019-2020 investigations and are reported in milligrams per kilogram (mg/kg)
2) Material groupings are defined as follows:
   VLT – OU-6 = 2005 and 2010 VLT samples
   VLT – OU-4b = 2019-2020 VLT samples
3) Data points shown outside the box plot were greater than 1.5x the interquartile range and are considered outliers.



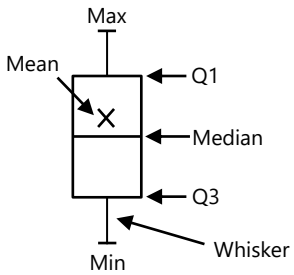
CONCENTRATIONS OF COPPER AND MAGNESIUM IN VLT FROM OU-4b AND OU-6
Anaconda Copper Mine Site
Lyon County, Nevada

wood.	Date: 09/09/20	Project No. SA18170340
	By: JG	**Figure 6-10**



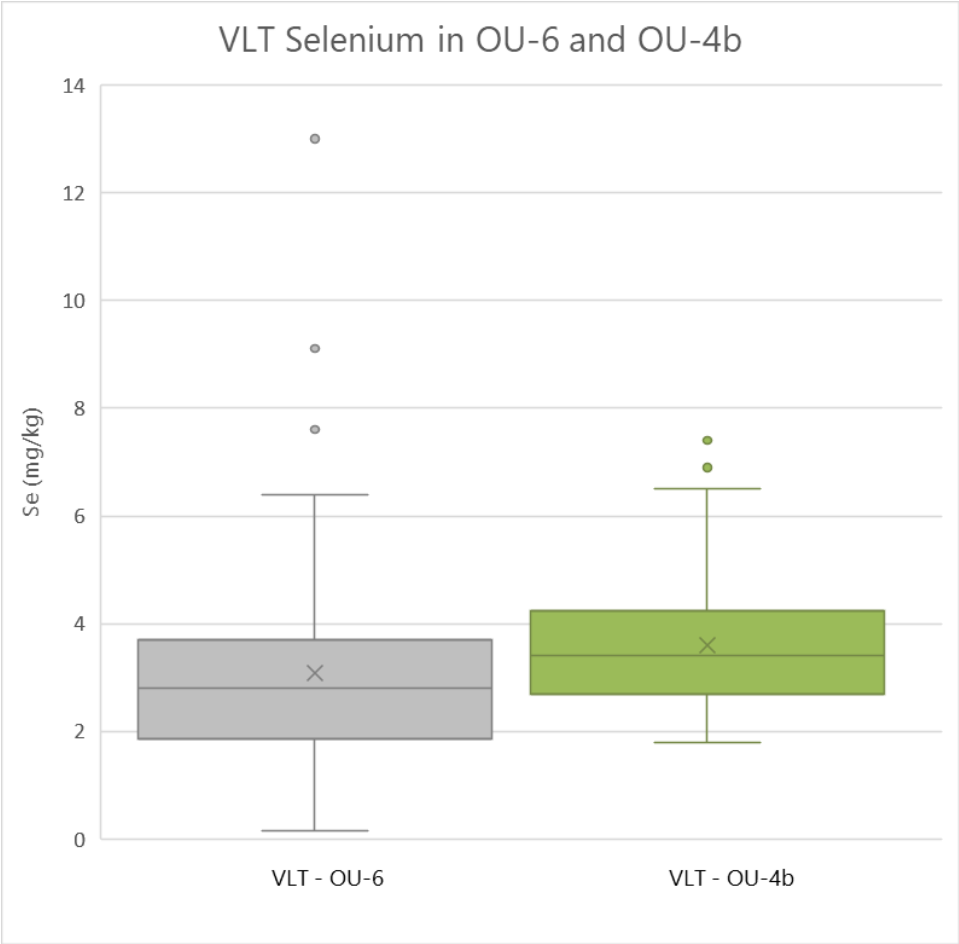


Notes:
1) Data are from the 2005, 2010, and 2019-2020 investigations and are reported in milligrams per kilogram (mg/kg)
2) Material groupings are defined as follows:
   VLT – OU-6 = 2005 and 2010 VLT samples
   VLT – OU-4b = 2019-2020 VLT samples
3) Data points shown outside the box plot were greater than 1.5x the interquartile range and are considered outliers.



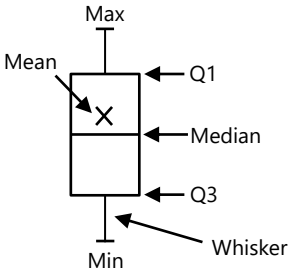
CONCENTRATIONS OF MERCURY AND MOLYBDENUM IN VLT FROM OU-4b AND OU-6
Anaconda Copper Mine Site
Lyon County, Nevada

wood.	Date: 09/09/20	Project No. SA18170340
	By: JG	**Figure 6-11**



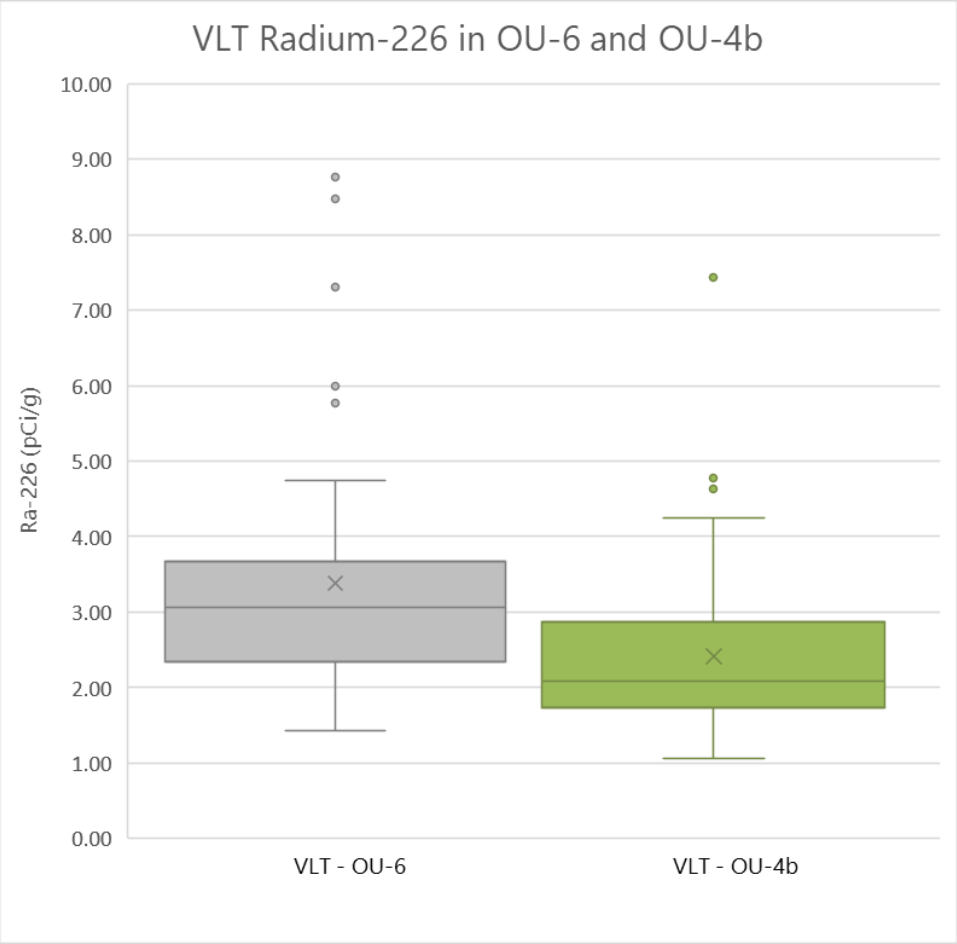
Notes:

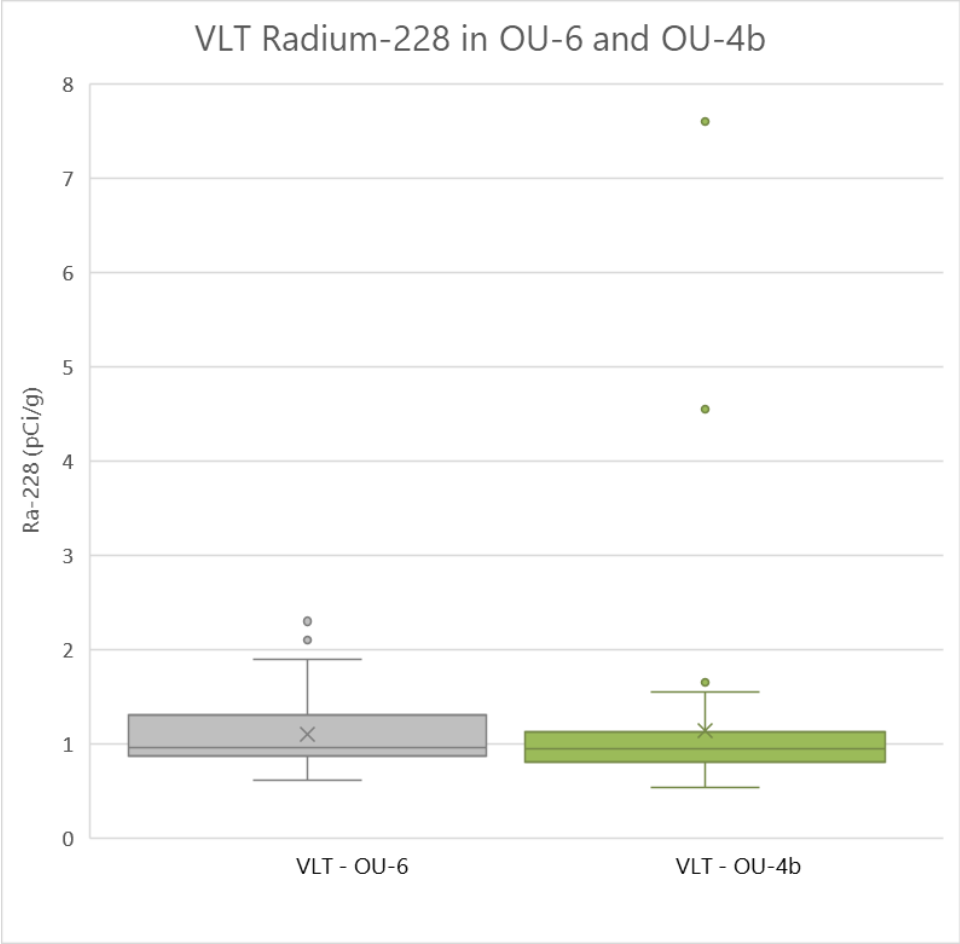
1) Data are from the 2005, 2010, 2018 and 2019-2020 investigations and are reported in milligrams per kilogram (mg/kg)
2) Material groupings are defined as follows:
   VLT – OU-6 = 2005, 2010, and 2018 VLT samples
   VLT – OU-4b = 2019-2020 VLT samples
3) Data points shown outside the box plot were greater than 1.5x the interquartile range and are considered outliers.



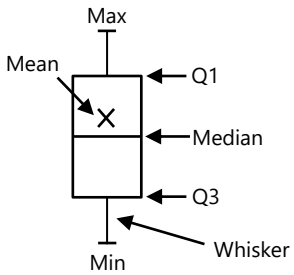
CONCENTRATIONS OF SELENIUM IN VLT
FROM OU-4b AND OU-6
Anaconda Copper Mine Site
Lyon County, Nevada

wood.	Date: 09/09/20	Project No. SA18170340
	By: JG	**Figure 6-12**





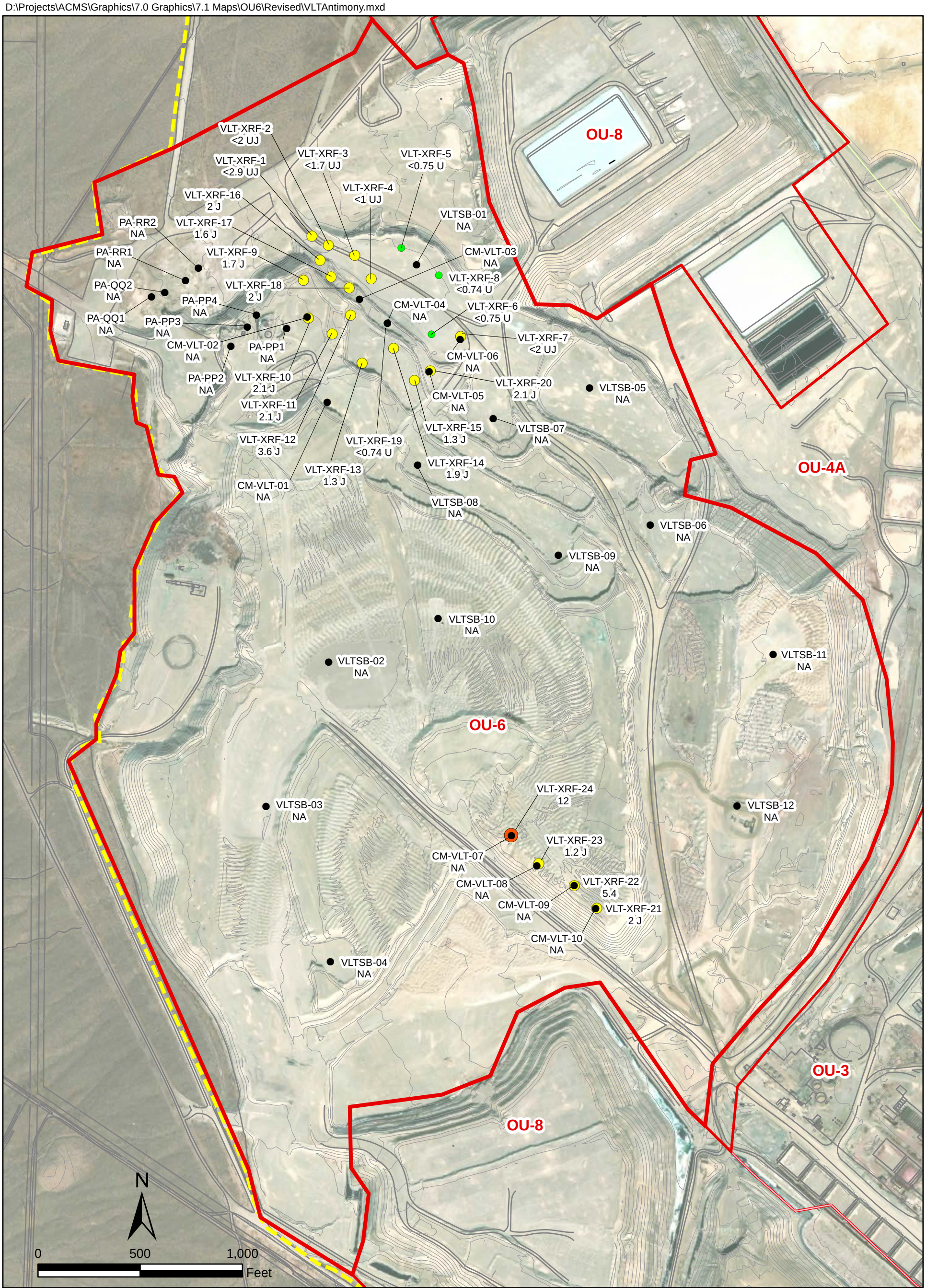
Notes:
1) Data are from the 2005, 2010, 2018 and 2019-2020 investigations and are reported in picocuries per gram (pCi/g)
2) Material groupings are defined as follows:
   VLT – OU-6 = 2005, 2010, and 2018 VLT samples
   VLT – OU-4b = 2019-2020 VLT samples
3) Data points shown outside the box plot were greater than 1.5x the interquartile range and are considered outliers.



CONCENTRATIONS OF RADIUM-226 AND RADIUM-228 IN VLT FROM OU-4b and OU-6
Anaconda Copper Mine Site
Lyon County, Nevada

wood.	Date: 01/25/21	Project No. SA18170340
	By: KP	**Figure 6-13**

D:\Projects\ACMS\Graphics\7.0 Graphics\7.1 Maps\OU6\Revised\VLTAntimony.mxd



Explanation:

- OU Boundary
- ACMS Boundary
- Less than or equal to the BCL
- Between 1X and 10X BCL
- Greater than 10X BCL
- Not analyzed

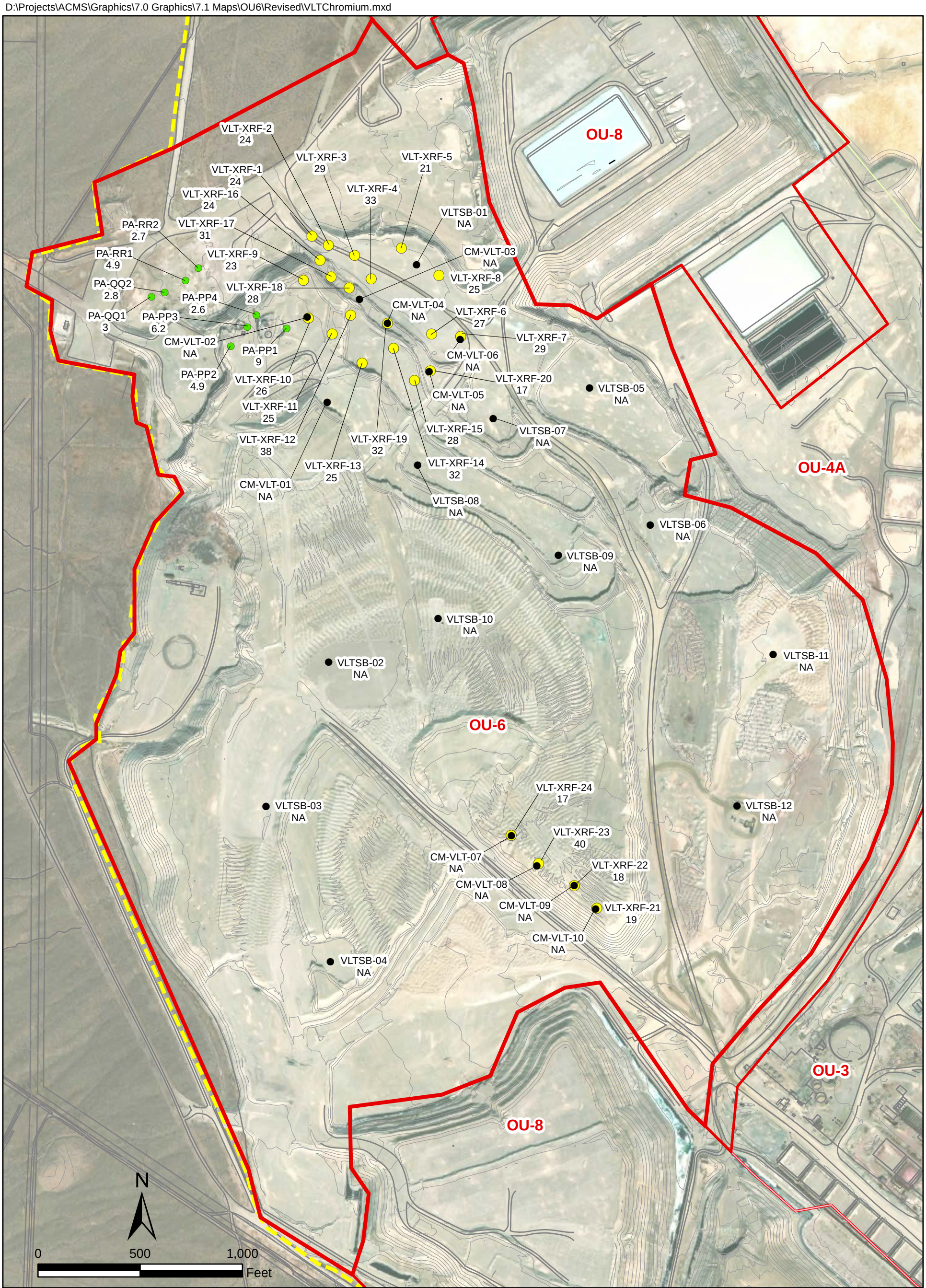
Notes:
1. All locations and boundaries are approximate.
2. Sub-Area A-1 background concentration limit (BCL) for Antimony is 0.94 mg/kg.
3. Data shown are from the 2005 and 2010 investigations.
4. Sample results show the maximum detected VLT concentration at each location.
5. Laboratory Qualifiers:
   J = Estimated concentration
   U = Not detected
   UJ = Estimated detection limit
6. Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

ANTIMONY CONCENTRATIONS IN VLT IN
OU-6
Anaconda Copper Mine Site
Lyon County, Nevada

wood.

By: DPV	Proj. No. SA18170340
Date: 2/26/2021	Figure 6-14

D:\Projects\ACMS\Graphics\7.0 Graphics\7.1 Maps\OU6\Revised\VLTChromium.mxd



Explanation:

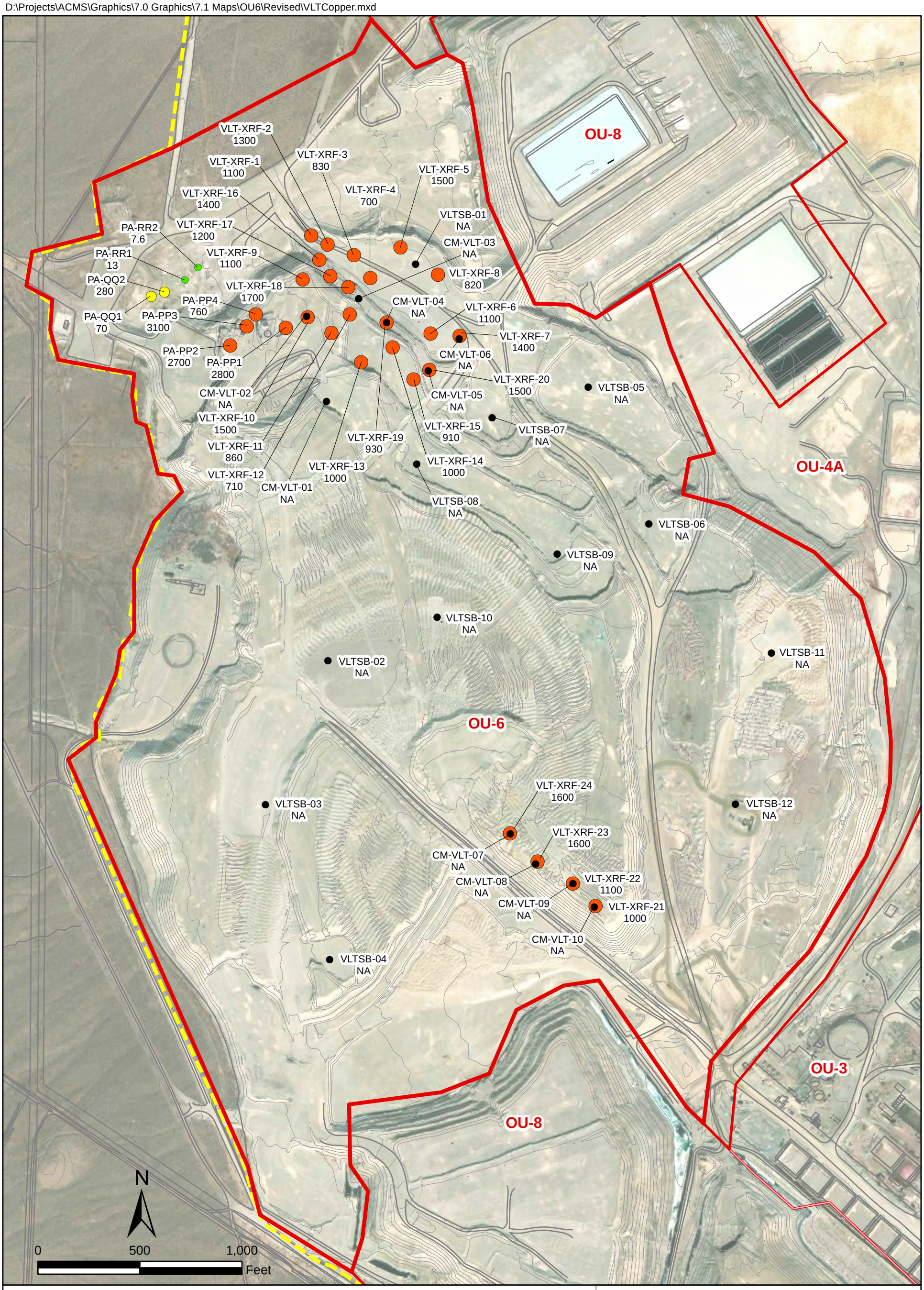
- OU Boundary
- ACMS Boundary
- Less than or equal to the BCL
- Between 1X and 10X BCL
- Greater than 10X BCL
- Not analyzed

Notes:
1. All locations and boundaries are approximate.
2. Sub-Area A-1 background concentration limit (BCL) for Chromium is 11 mg/kg.
3. Data shown are from the 2005 and 2010 investigations.
4. Sample results show the maximum detected VLT concentration at each location.
5. Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

CHROMIUM CONCENTRATIONS IN VLT IN OU-6
Anaconda Copper Mine Site
Lyon County, Nevada

wood.	By: DPV	Proj. No. SA18170340
	Date: 2/26/2021	Figure 6-15

D:\Projects\ACMS\Graphics\7.0 Graphics\7.1 Maps\OU6\Revised\VLTCopper.mxd



Explanation:

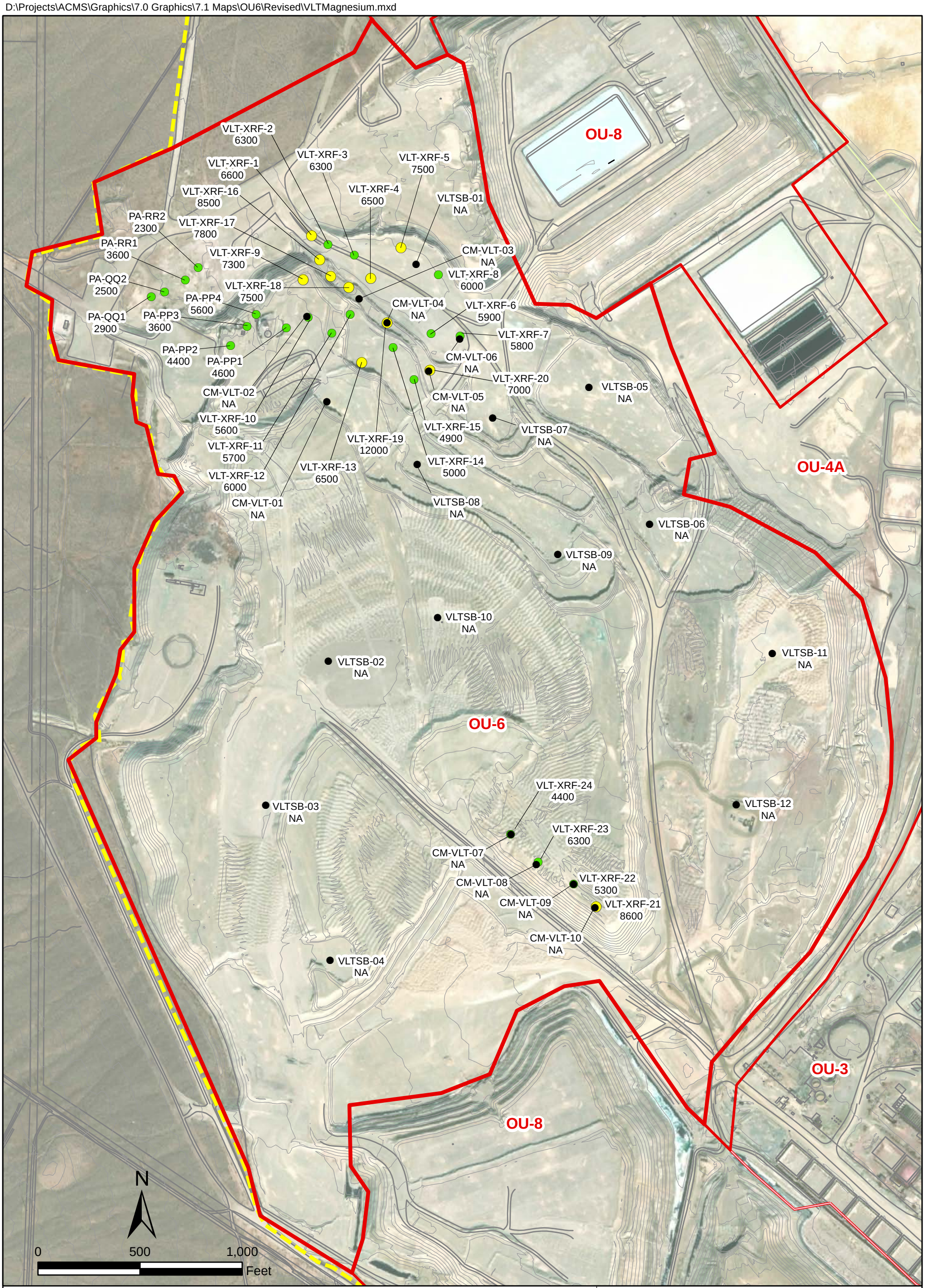
- OU Boundary
- ACMS Boundary
- Less than or equal to the BCL
- Between 1X and 10X BCL
- Greater than 10X BCL
- Not analyzed

Notes:
1. All locations and boundaries are approximate.
2. Sub-Area A-1 background concentration limit (BCL) for Copper is 58 mg/kg.
3. Data shown are from the 2005 and 2010 investigations.
4. Sample results are from the shallowest interval at each location.
5. Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

COPPER CONCENTRATIONS IN VLT IN
OU-6
Anaconda Copper Mine Site
Lyon County, Nevada

wood.	By: DPV	Proj. No. SA18170340
	Date: 2/26/2021	Figure **6-16**

D:\Projects\ACMS\Graphics\7.0 Graphics\7.1 Maps\OU6\Revised\VLTMagnesium.mxd



Explanation:

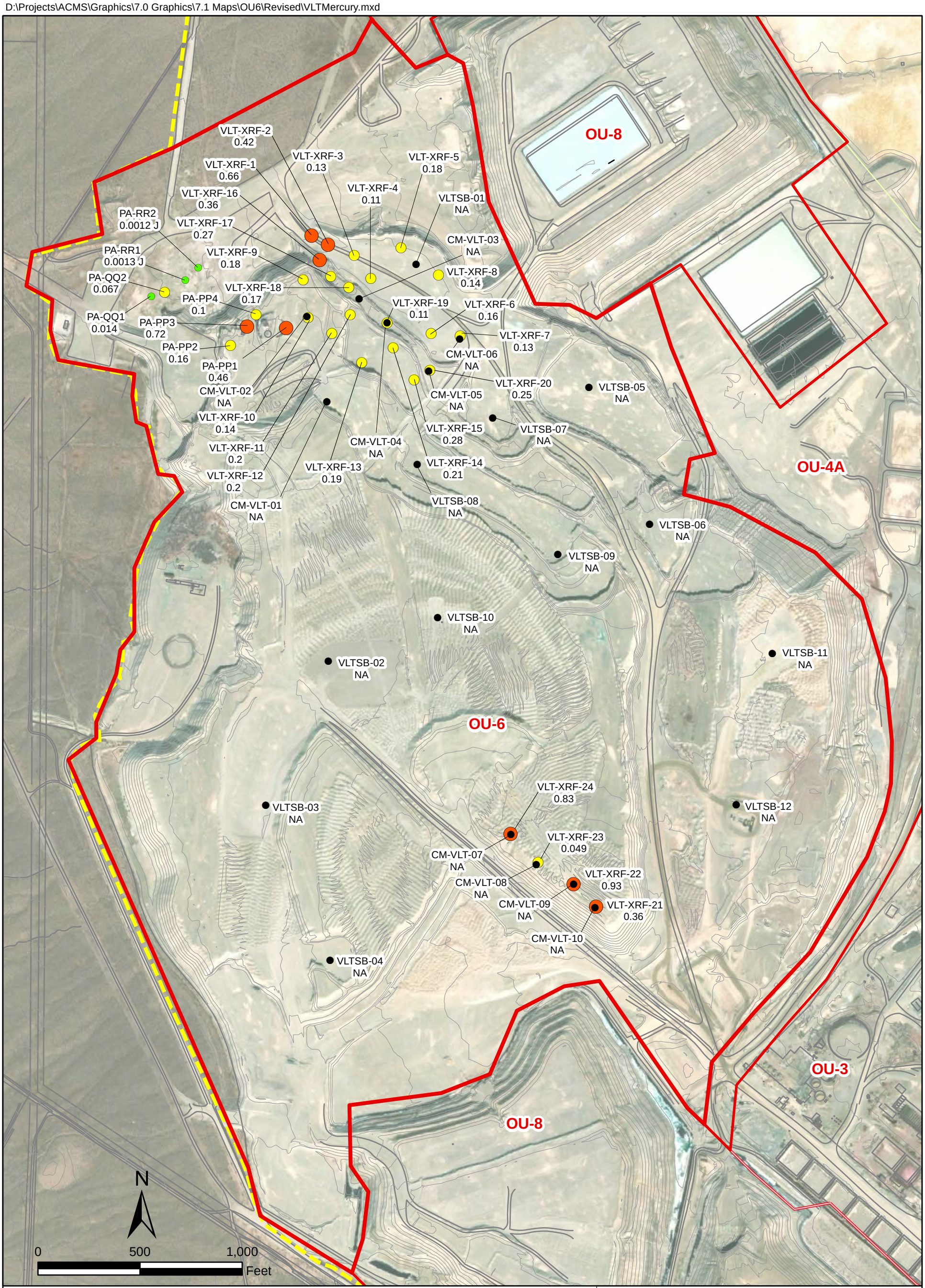
- OU Boundary
- ACMS Boundary
- Less than or equal to the BCL
- Between 1X and 10X BCL
- Greater than 10X BCL
- Not analyzed

Notes:
1. All locations and boundaries are approximate.
2. Sub-Area A-1 background concentration limit (BCL) for Magnesium is 6314 mg/kg.
3. Data shown are from the 2005 and 2010 investigations.
4. Sample results show the maximum detected VLT concentration at each location.
5. Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

MAGNESIUM CONCENTRATIONS IN VLT IN OU-6
Anaconda Copper Mine Site
Lyon County, Nevada

wood.	By: DPV	Proj. No. SA18170340
	Date: 2/26/2021	Figure 6-17

D:\Projects\ACMS\Graphics\7.0 Graphics\7.1 Maps\OU6\Revised\VLTMercury.mxd



Explanation:

- ACMS Boundary
- Site Boundary
- Less than or equal to the BCL
- Between 1X and 10X BCL
- Greater than 10X BCL
- Not analyzed

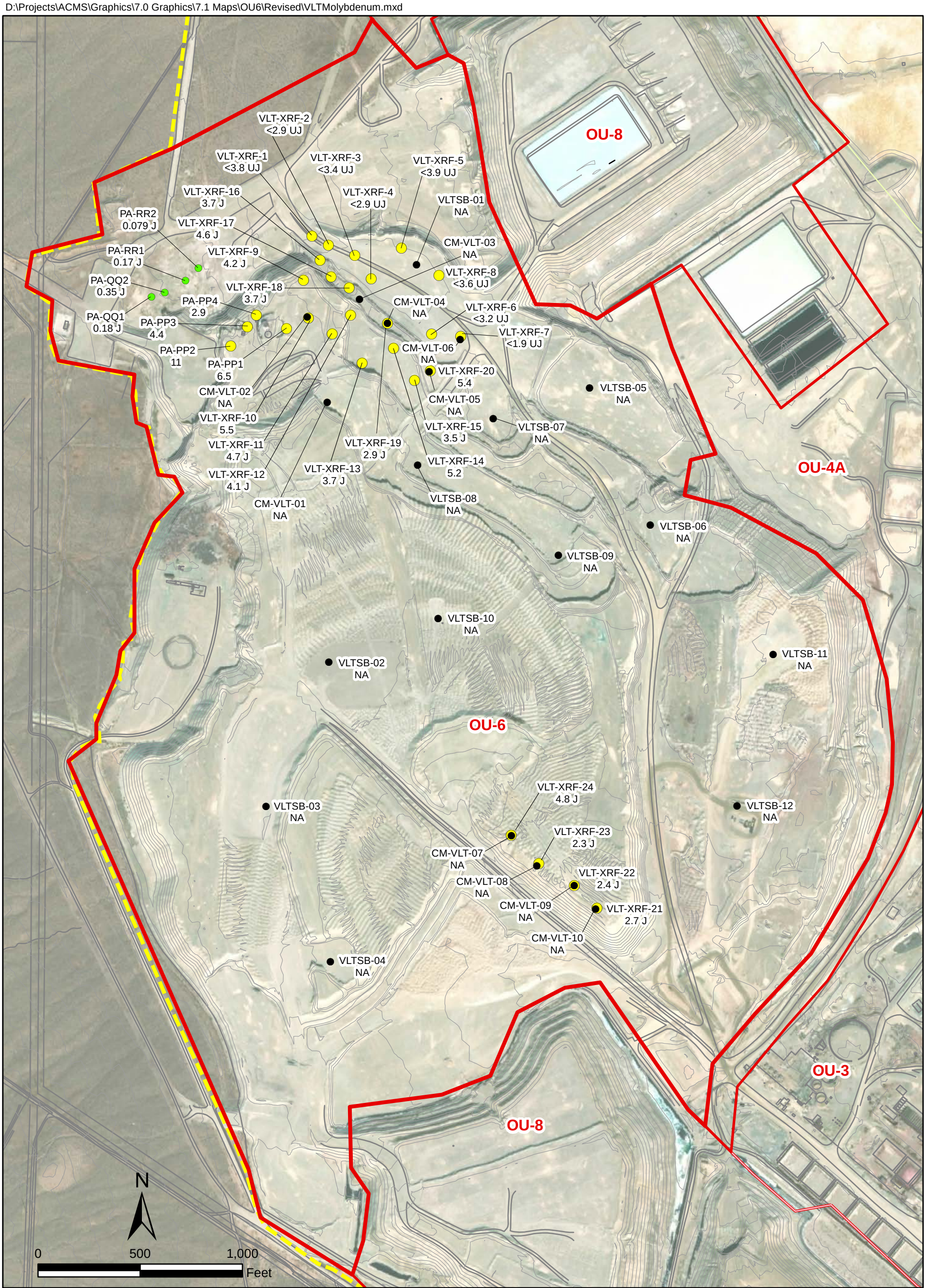
Notes:
1. All locations and boundaries are approximate.
2. Sub-Area A-1 background concentration limit (BCL) for Mercury is 0.031 mg/kg.
3. Data shown are from the 2005 and 2010 investigations.
4. Sample results show the maximum detected VLT concentration at each location.
5. Laboratory Qualifiers:
   J = Estimated concentration
6. Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

MERCURY CONCENTRATIONS IN VLT IN
OU-6
Anaconda Copper Mine Site
Lyon County, Nevada

wood.

By: DPV	Proj. No. SA18170340
Date: 2/26/2021	Figure 6-18

D:\Projects\ACMS\Graphics\7.0 Graphics\7.1 Maps\OU6\Revised\VLTMolybdenum.mxd



Explanation:

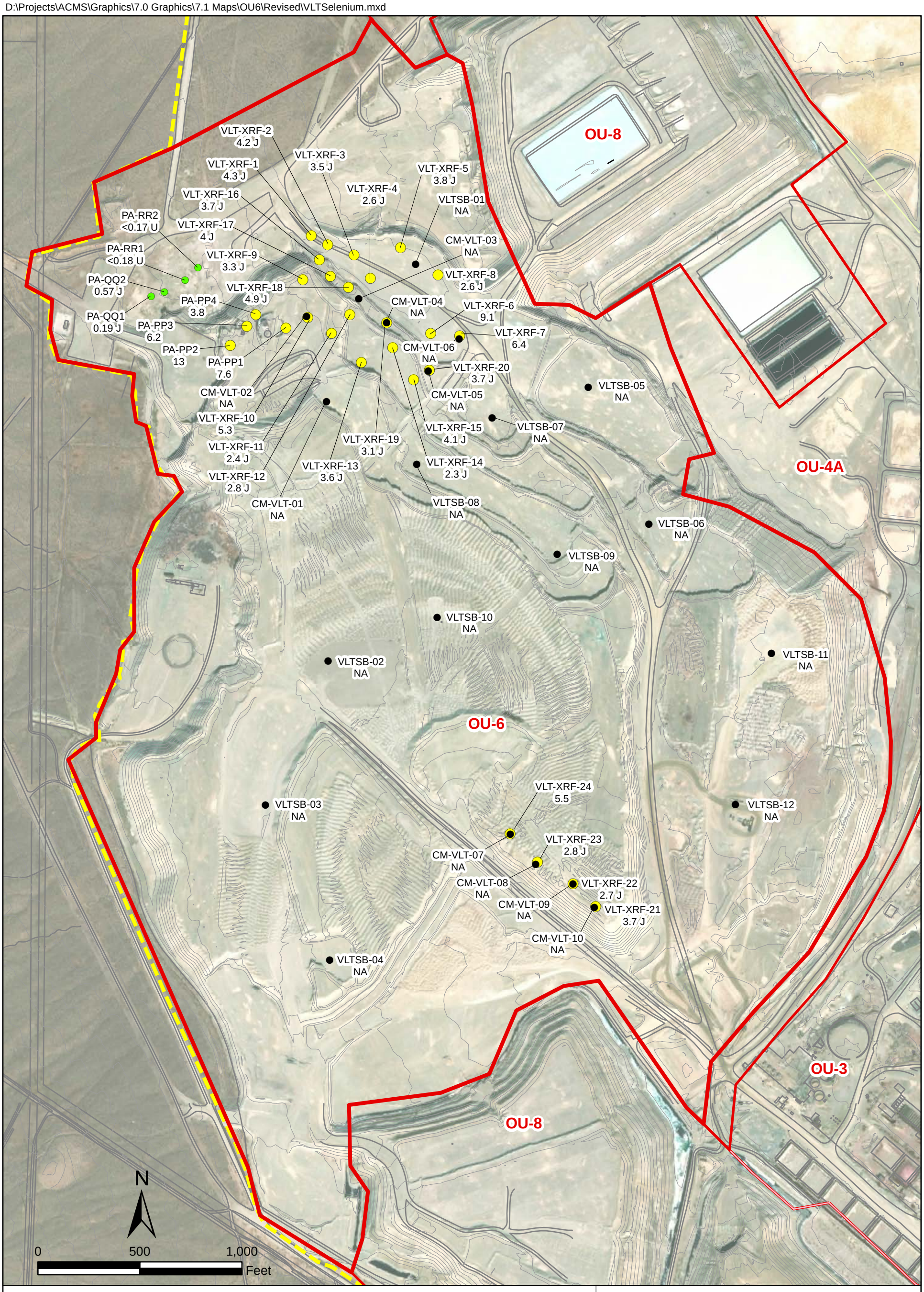
- OU Boundary
- ACMS Boundary
- Less than or equal to the BCL
- Between 1X and 10X BCL
- Greater than 10X BCL
- Not analyzed

Notes:
1. All locations and boundaries are approximate.
2. Sub-Area A-1 background concentration limit (BCL) for Molybdenum is 1.7 mg/kg.
3. Data shown are from the 2005 and 2010 investigations.
4. Sample results show the maximum detected VLT concentration at each location.
5. Laboratory Qualifiers:
   J = Estimated concentration
   UJ = Estimated detection limit
6. Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

MOLYBDENUM CONCENTRATIONS IN VLT IN OU-6
Anaconda Copper Mine Site
Lyon County, Nevada

wood.	By: DPV	Proj. No. SA18170340
	Date: 2/26/2021	Figure 6-19

D:\Projects\ACMS\Graphics\7.0 Graphics\7.1 Maps\OU6\Revised\VLTSelenium.mxd



Explanation:

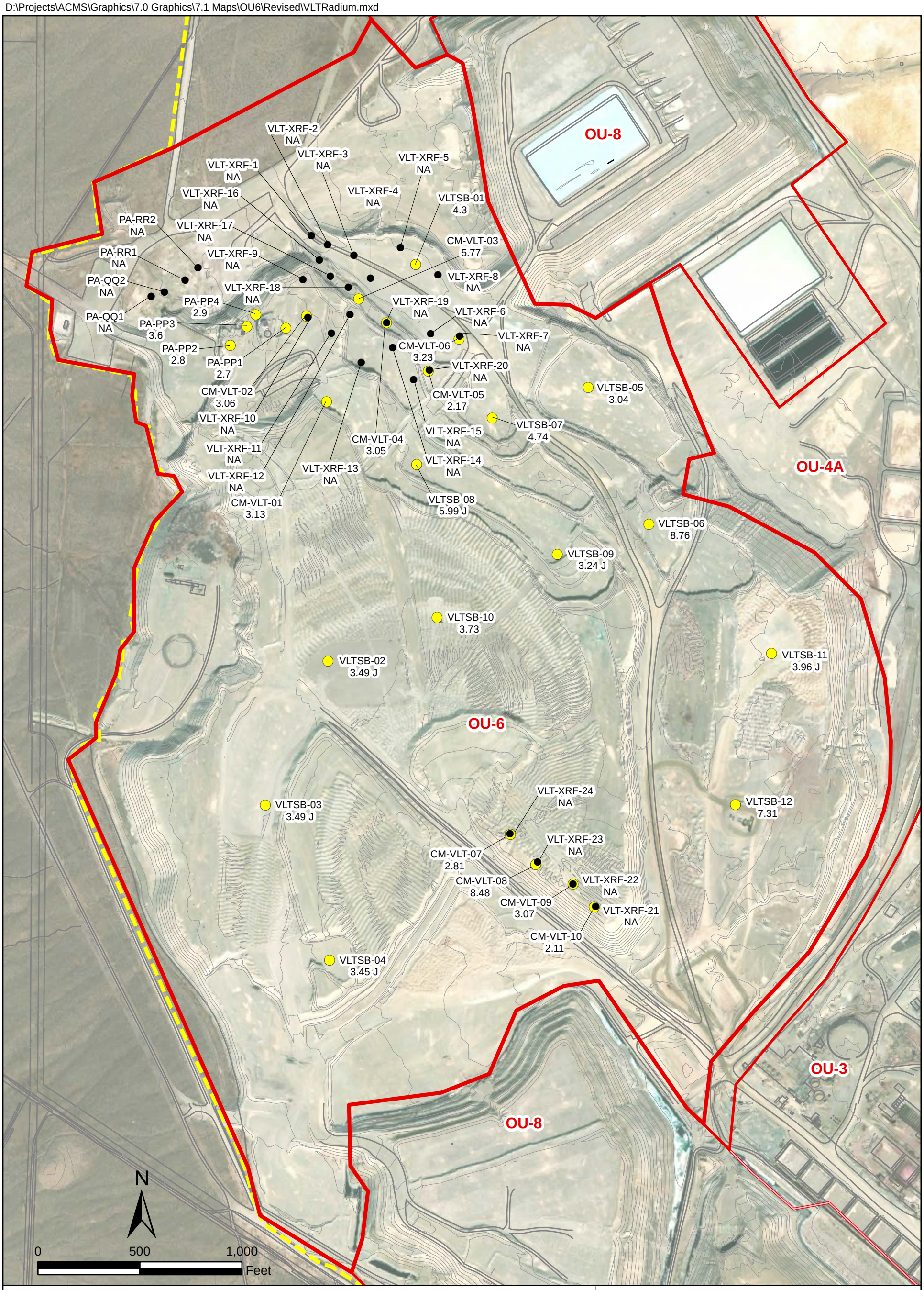
- OU Boundary
- ACMS Boundary
- Less than or equal to the BCl
- Between 1X and 10X BCL
- Greater than 10X BCL
- Not analyzed

Notes:
1. All locations and boundaries are approximate.
2. Sub-Area A-1 background concentration limit (BCL) for Selenium is 0.8 mg/kg.
3. Data shown are from the 2005 and 2010 investigations.
4. Sample results show the maximum detected VLT concentration at each location.
5. Laboratory Qualifiers:
   J = Estimated concentration
   U = Not detected
6. Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

SELENIUM CONCENTRATIONS IN VLT IN
OU-6
Anaconda Copper Mine Site
Lyon County, Nevada

wood.	By: DPV	Proj. No. SA18170340
	Date: 2/26/2021	Figure **6-20**

D:\Projects\ACMS\Graphics\7.0 Graphics\7.1 Maps\OU6\Revised\VLTRadium.mxd



Explanation:

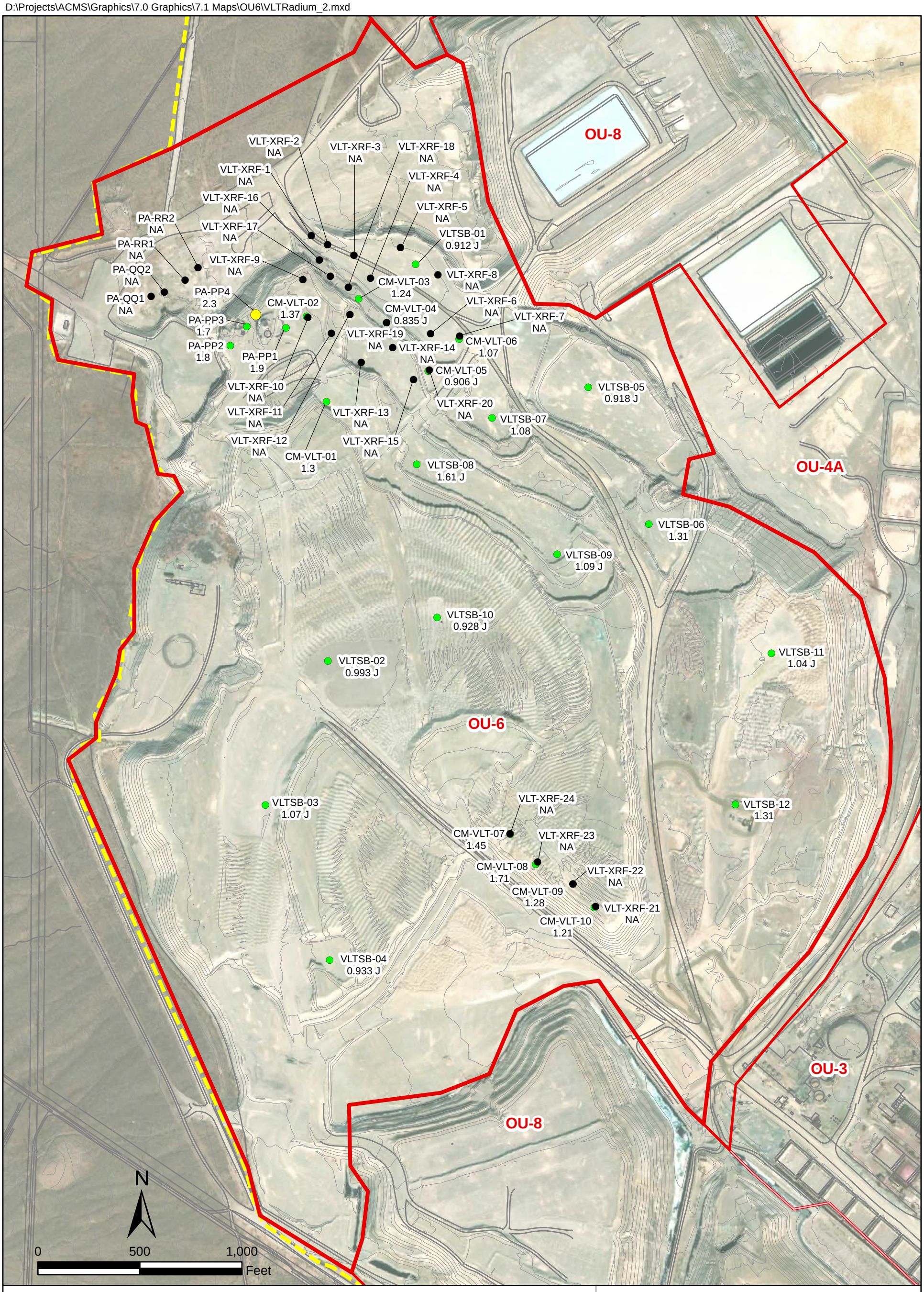
- OU Boundary
- Site Boundary
- Less than or equal to the BCL
- Between 1X and 10X BCL
- Greater than 10X BCL
- Not analyzed

Notes:
1. All locations and boundaries are approximate.
2. Sub-Area A-1 background concentration limit (BCL) for Radium-226 is 2.04 pCi/g.
3. Data shown are from the 2005, 2010, and 2018 investigations.
4. Sample results show the maximum detected VLT concentration at each location.
5. Laboratory Qualifiers:
   J = Estimated concentration
6. Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

RADIUM-226 CONCENTRATIONS IN VLT IN
OU-6
Anaconda Copper Mine Site
Lyon County, Nevada

wood.	By: DPV	Proj. No. SA18170340
	Date: 2/26/2021	Figure **6-21**

D:\Projects\ACMS\Graphics\7.0 Graphics\7.1 Maps\OU6\VLTRadium_2.mxd



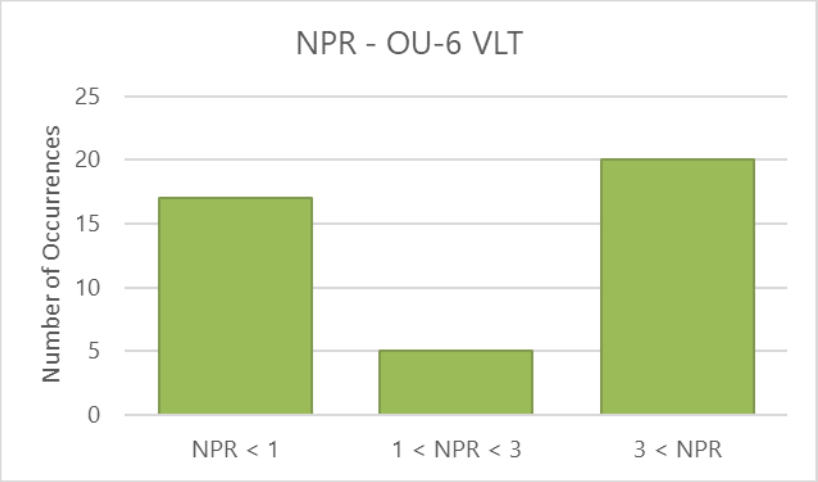
Explanation:

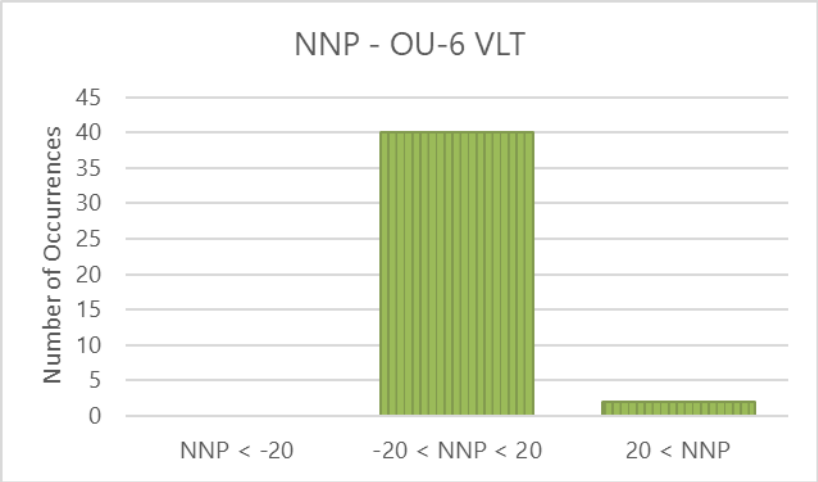
- OU Boundary
- Site Boundary
- Less than or equal to the BCL
- Between 1X and 10X BCL
- Greater than 10X BCL
- Not analyzed

Notes:
1. All locations and boundaries are approximate.
2. Sub-Area A-1 background concentration limit (BCL) for Radium-228 is 2.24 pCi/g.
3. Data shown are from the 2005, 2010, and 2018 investigations.
4. Sample results show the maximum detected VLT concentration at each location.
5. Laboratory Qualifiers:
   J = Estimated concentration
6. Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

RADIUM-228 CONCENTRATIONS IN VLT IN OU-6
Anaconda Copper Mine Site
Lyon County, Nevada

wood.	By: DPV	Proj. No. SA18170340
	Date: 3/12/2021	Figure 6-22

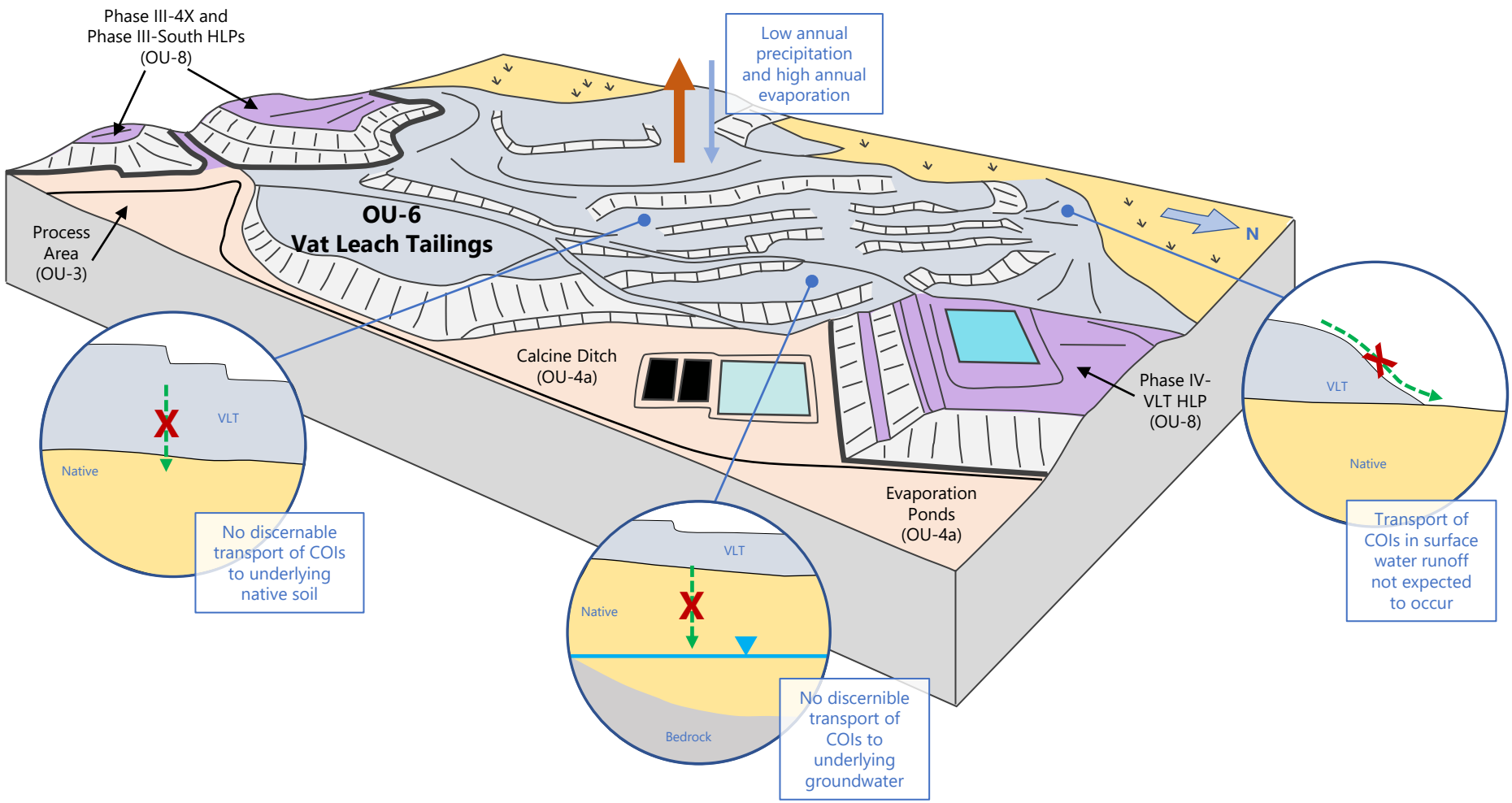




Notes:
1) Data are from the 2005, 2010, and 2018 investigations
2) General criteria for prediction of PAG material:
   NPR < 1 = PAG
   1 < NPR < 3 = uncertain
   NPR > 3 = non-PAG

NEUTRALIZATION POTENTIAL RATIOS
AND NET NEUTRALIZATION POTENTIAL
IN OU-6
Anaconda Copper Mine Site
Lyon County, Nevada

wood.	Date: 09/14/20	Project No. SA18170340
	By: JG	**Figure 6-23**



Notes:
1) Not to scale

CONCEPTUAL SITE MODEL FOR OU-6
Anaconda Copper Mine Site
Lyon County, Nevada

wood.	Date: 09/17/20	Project No. SA18170340
	By: JG	**Figure 6-24**