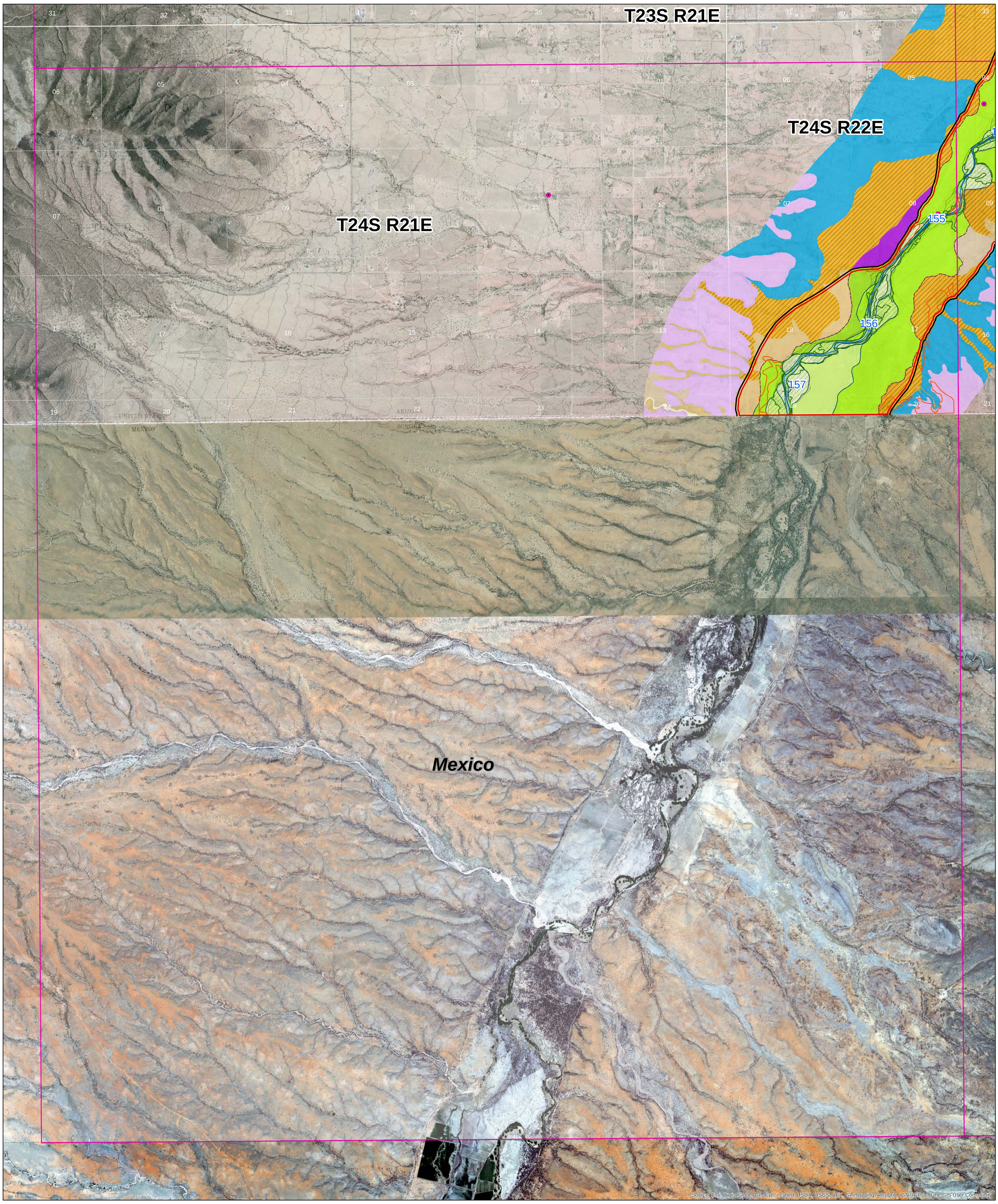
APPENDIX C-1



Legend

AZGS Sites

Well Logs
- Professional Log
- Driller's Log

Water Level Analysis
- GWSI well in Holocene
- River Centerline
- Perpendicular to River Centerline

USFW Riparian
- Cottonwood-Willow
- Mesquite-Salt Cedar

Tributary Drainages
- Major Basins (>50 sqmi)
- Washes

FHA Extent

Subflow Zone

Holocene River Alluvium
- Active river channel deposits
- Flood channel & low terrace deposits
- Historical river terrace deposits
- Latest Holocene to historical river terrace deposits
- Late to early Holocene river terrace deposits

Holocene Tributary Stream Alluvium
- Modern stream channel deposits
- Latest Holocene Alluvium
- Late Holocene alluvium
- Older Holocene alluvium

Holocene Piedmont Alluvium

Historic Composite Active Floodplain

Pleistocene River Alluvium
- Late Pleistocene river terrace deposits
- Middle to late Plesitocene river terrace deposits
- Early to middle Pleistocene river terrace deposits
- Pleistocene river deposits
- Early Pleistocene river channel alluvium
- Quaternary hillslope talus & colluvium

Pleistocene Piedmont Alluvium

Pleistocene Alluvium

Tertiary Piedmont Alluvium

Tertiary Basin Fill Allivuium

Bedrock Units

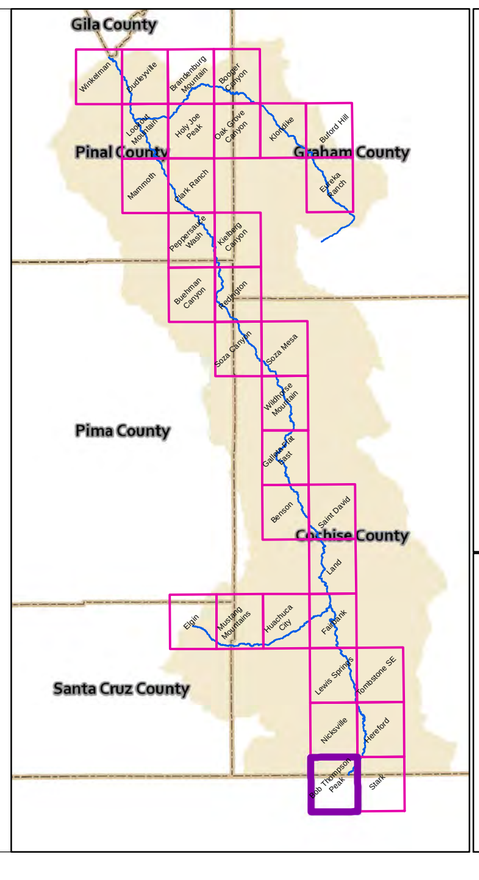
Disturbed Lands
- Disturbed
- Ditch
- Mining related

1:24,000

0 1 2 Miles

N

Basemap: ESRI World Imagery with Topography

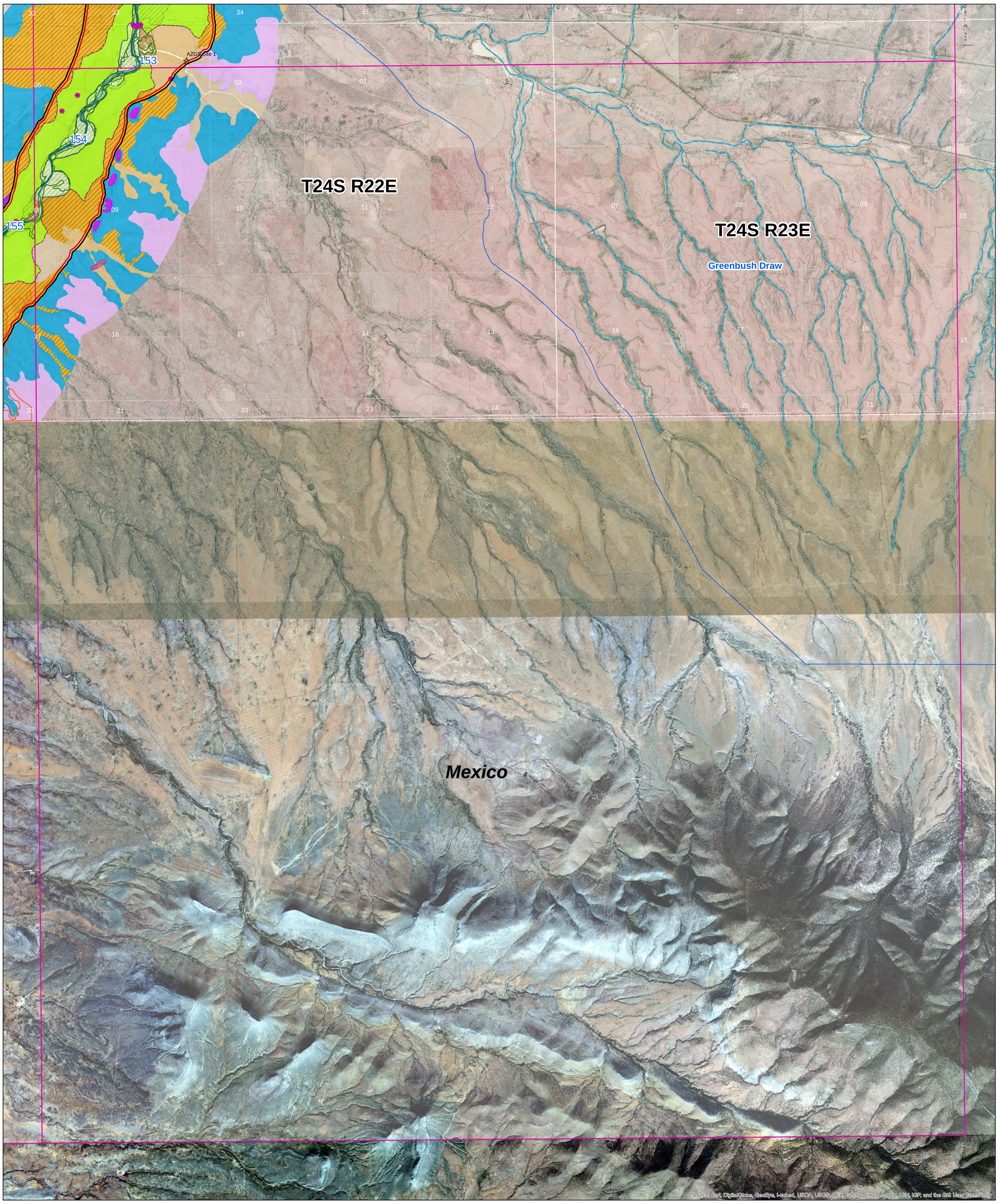


Workmap Series with Imagery and Topography

USGS Topo Quad: Bob Thompson Peak

Map 1 of 33

Revised Subflow Zone Delineation Report
April 2014



Legend

AZGS Sites

Well Logs
- Professional Log
- Driller's Log

Water Level Analysis
- GWSI well in Holocene
- River Centerline
- Perpendicular to River Centerline

USFW Riparian
- Cottonwood-Willow
- Mesquite-Salt Cedar

Tributary Drainages
- Major Basins (>50 sqmi)
- Washes

FHA Extent

Subflow Zone

Holocene River Alluvium
- Active river channel deposits
- Flood channel & low terrace deposits
- Historical river terrace deposits
- Latest Holocene to historical river terrace deposits
- Late to early Holocene river terrace deposits

Holocene Tributary Stream Alluvium
- Modern stream channel deposits
- Latest Holocene Alluvium
- Late Holocene alluvium
- Older Holocene alluvium

Holocene Piedmont Alluvium

Historic Composite Active Floodplain

Pleistocene River Alluvium
- Late Pleistocene river terrace deposits
- Middle to late Plesitocene river terrace deposits
- Early to middle Pleistocene river terrace deposits
- Pleistocene river deposits
- Early Pleistocene river channel alluvium
- Quaternary hillslope talus & colluvium

Pleistocene Piedmont Alluvium

Pleistocene Alluvium

Tertiary Piedmont Alluvium

Tertiary Basin Fill Allivuium

Bedrock Units

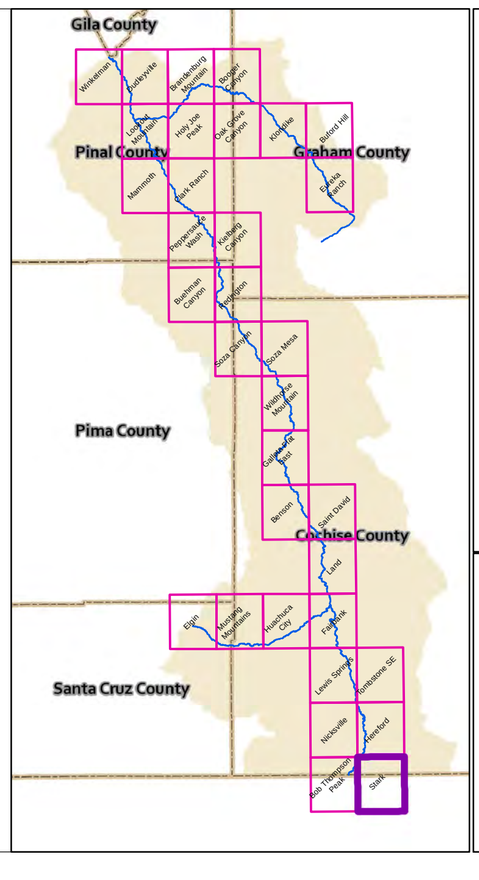
Disturbed Lands
- Disturbed
- Ditch
- Mining related

1:24,000

0 1 2 Miles

N

Basemap: ESRI World Imagery with Topography

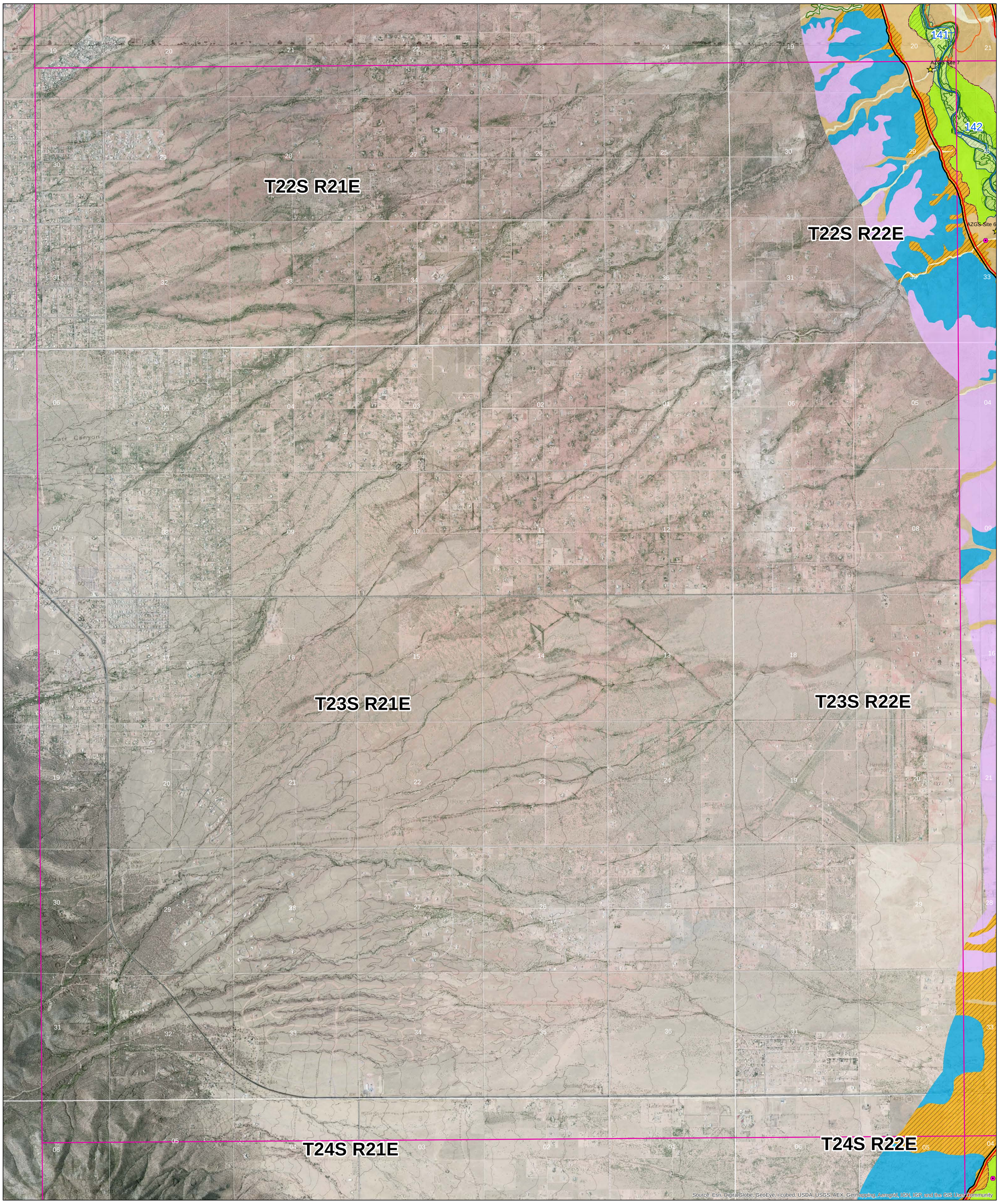


Workmap Series with Imagery and Topography

USGS Topo Quad: Stark

Map 2 of 33

Revised Subflow Zone Delineation Report
April 2014



Legend

AZGS Sites

Well Logs
- Professional Log
- Driller's Log

Water Level Analysis
- GWSI well in Holocene
- River Centerline
- Perpendicular to River Centerline

USFW Riparian
- Cottonwood-Willow
- Mesquite-Salt Cedar

Tributary Drainages
- Major Basins (>50 sqmi)
- Washes

FHA Extent

Subflow Zone

Holocene River Alluvium
- Active river channel deposits
- Flood channel & low terrace deposits
- Historical river terrace deposits
- Latest Holocene to historical river terrace deposits
- Late to early Holocene river terrace deposits

Holocene Tributary Stream Alluvium
- Modern stream channel deposits
- Latest Holocene Alluvium
- Late Holocene alluvium
- Older Holocene alluvium

Holocene Piedmont Alluvium

Historic Composite Active Floodplain

Pleistocene River Alluvium
- Late Pleistocene river terrace deposits
- Middle to late Plesitocene river terrace deposits
- Early to middle Pleistocene river terrace deposits
- Pleistocene river deposits
- Early Pleistocene river channel alluvium
- Quaternary hillslope talus & colluvium

Pleistocene Piedmont Alluvium

Pleistocene Alluvium

Tertiary Piedmont Alluvium

Tertiary Basin Fill Allivuium

Bedrock Units

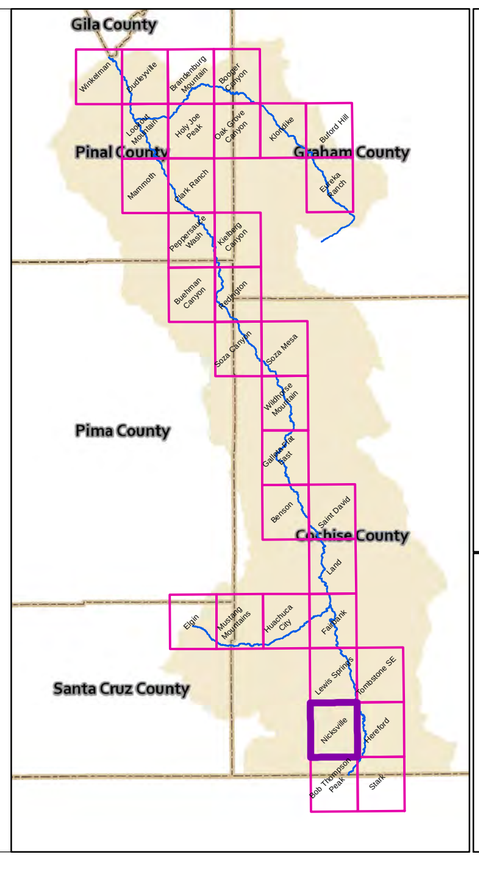
Disturbed Lands
- Disturbed
- Ditch
- Mining related

1:24,000

0 1 2 Miles

N

Basemap: ESRI World Imagery with Topography

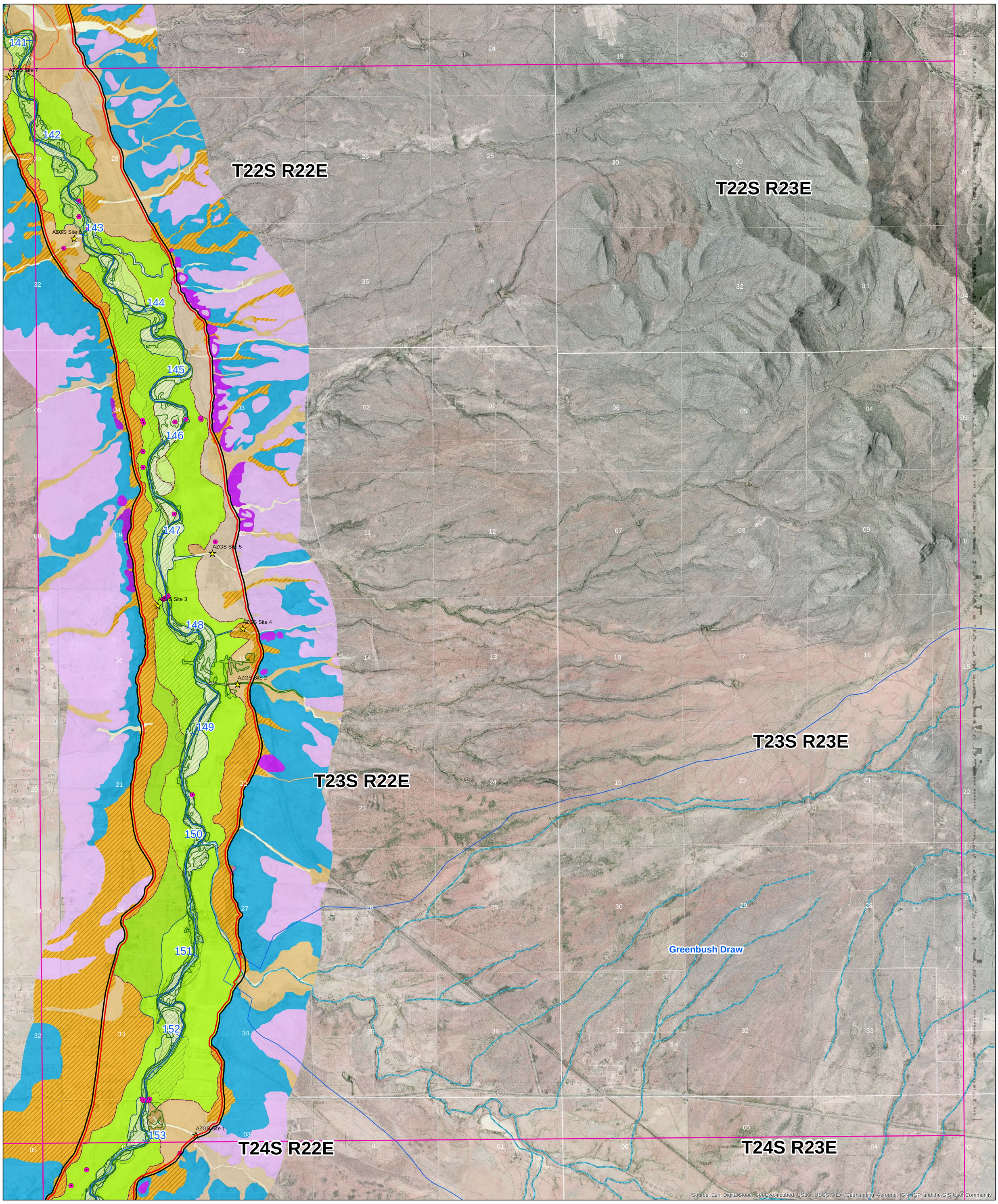


Workmap Series with Imagery and Topography

USGS Topo Quad: Nicksville

Map 3 of 33

Revised Subflow Zone Delineation Report
April 2014



Legend

AZGS Sites

Well Logs
- Professional Log
- Driller's Log

Water Level Analysis
- GWSI well in Holocene
- River Centerline
- Perpendicular to River Centerline

USFW Riparian
- Cottonwood-Willow
- Mesquite-Salt Cedar

Tributary Drainages
- Major Basins (>50 sqmi)
- Washes

FHA Extent

Subflow Zone

Holocene River Alluvium
- Active river channel deposits
- Flood channel & low terrace deposits
- Historical river terrace deposits
- Latest Holocene to historical river terrace deposits
- Late to early Holocene river terrace deposits

Holocene Tributary Stream Alluvium
- Modern stream channel deposits
- Latest Holocene Alluvium
- Late Holocene alluvium
- Older Holocene alluvium

Holocene Piedmont Alluvium

Historic Composite Active Floodplain

Pleistocene River Alluvium
- Late Pleistocene river terrace deposits
- Middle to late Plesitocene river terrace deposits
- Early to middle Pleistocene river terrace deposits
- Pleistocene river deposits
- Early Pleistocene river channel alluvium
- Quaternary hillslope talus & colluvium

Pleistocene Piedmont Alluvium

Pleistocene Alluvium

Tertiary Piedmont Alluvium

Tertiary Basin Fill Allivuium

Bedrock Units

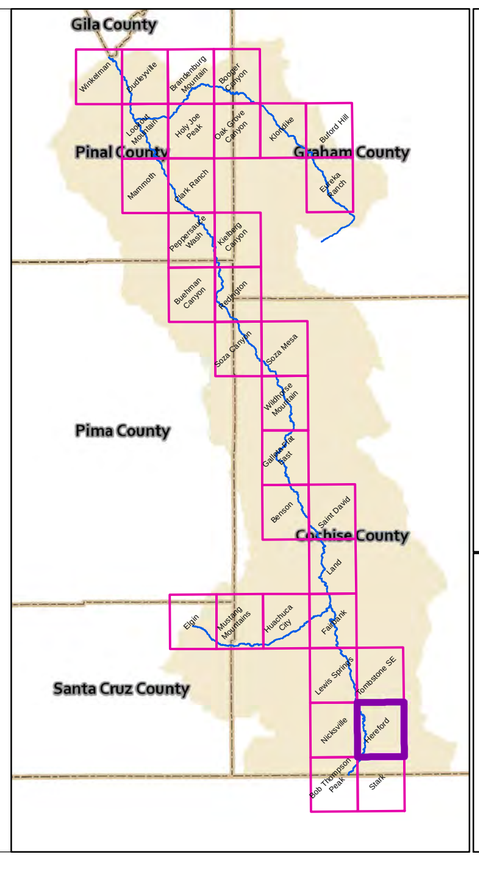
Disturbed Lands
- Disturbed
- Ditch
- Mining related

Basemap: ESRI World Imagery with Topography

1:24,000

0 1 2 Miles

N

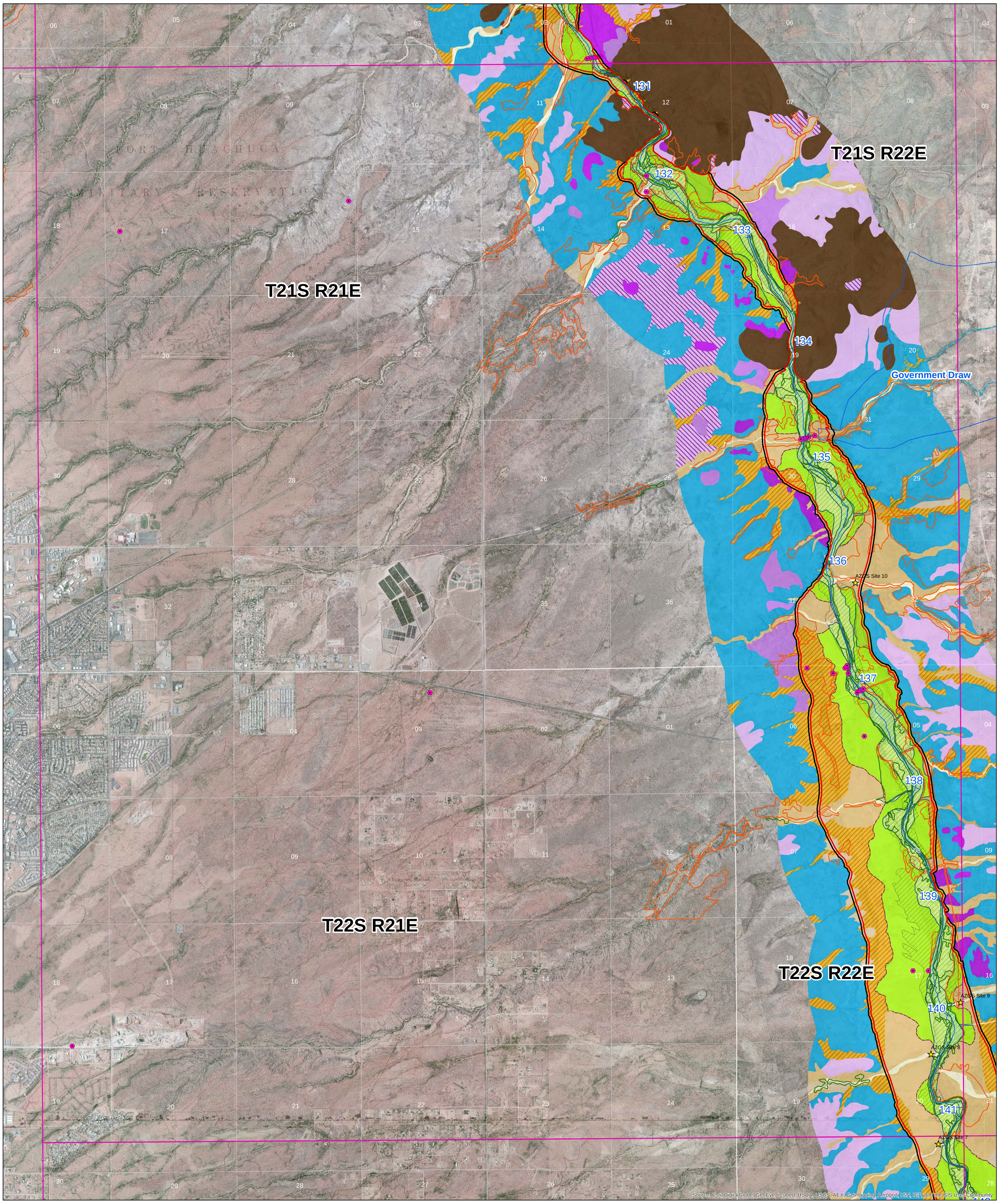


Workmap Series with Imagery and Topography

USGS Topo Quad: Hereford

Map 4 of 33

Revised Subflow Zone Delineation Report
April 2014



Legend

- AZGS Sites

Well Logs
- Professional Log
- Driller's Log

Water Level Analysis
- GWSI well in Holocene
- River Centerline
- Perpendicular to River Centerline

USFW Riparian
- Cottonwood-Willow
- Mesquite-Salt Cedar

Tributary Drainages
- Major Basins (>50 sqmi)
- Washes

- FHA Extent
- Subflow Zone

Holocene River Alluvium
- Active river channel deposits
- Flood channel & low terrace deposits
- Historical river terrace deposits
- Latest Holocene to historical river terrace deposits
- Late to early Holocene river terrace deposits

Holocene Tributary Stream Alluvium
- Modern stream channel deposits
- Latest Holocene Alluvium
- Late Holocene alluvium
- Older Holocene alluvium

Holocene Piedmont Alluvium
- Historic Composite Active Floodplain

Pleistocene River Alluvium
- Late Pleistocene river terrace deposits
- Middle to late Plesitocene river terrace deposits
- Early to middle Pleistocene river terrace deposits
- Pleistocene river deposits
- Early Pleistocene river channel alluvium
- Quaternary hillslope talus & colluvium

Pleistocene Piedmont Alluvium

Pleistocene Alluvium

Tertiary Piedmont Alluvium

Tertiary Basin Fill Allivuium

Bedrock Units

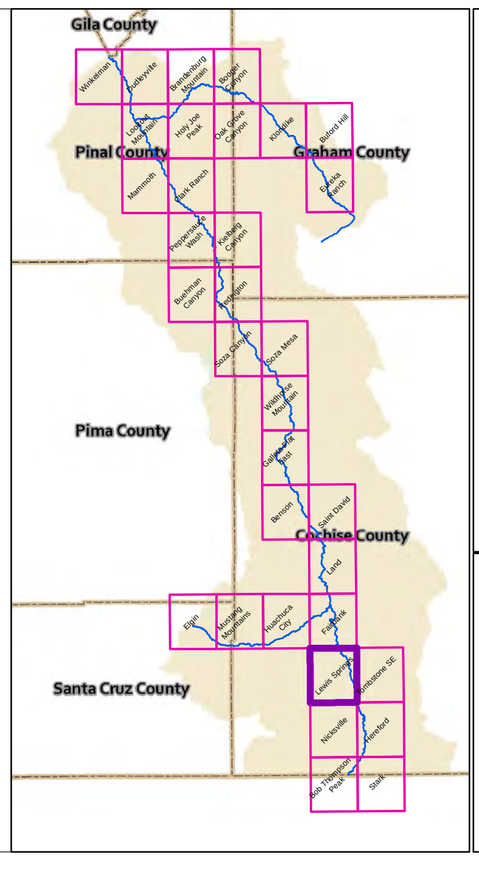
Disturbed Lands
- Disturbed
- Ditch
- Mining related

Basemap: ESRI World Imagery with Topography

1:24,000

0 1 2 Miles

N

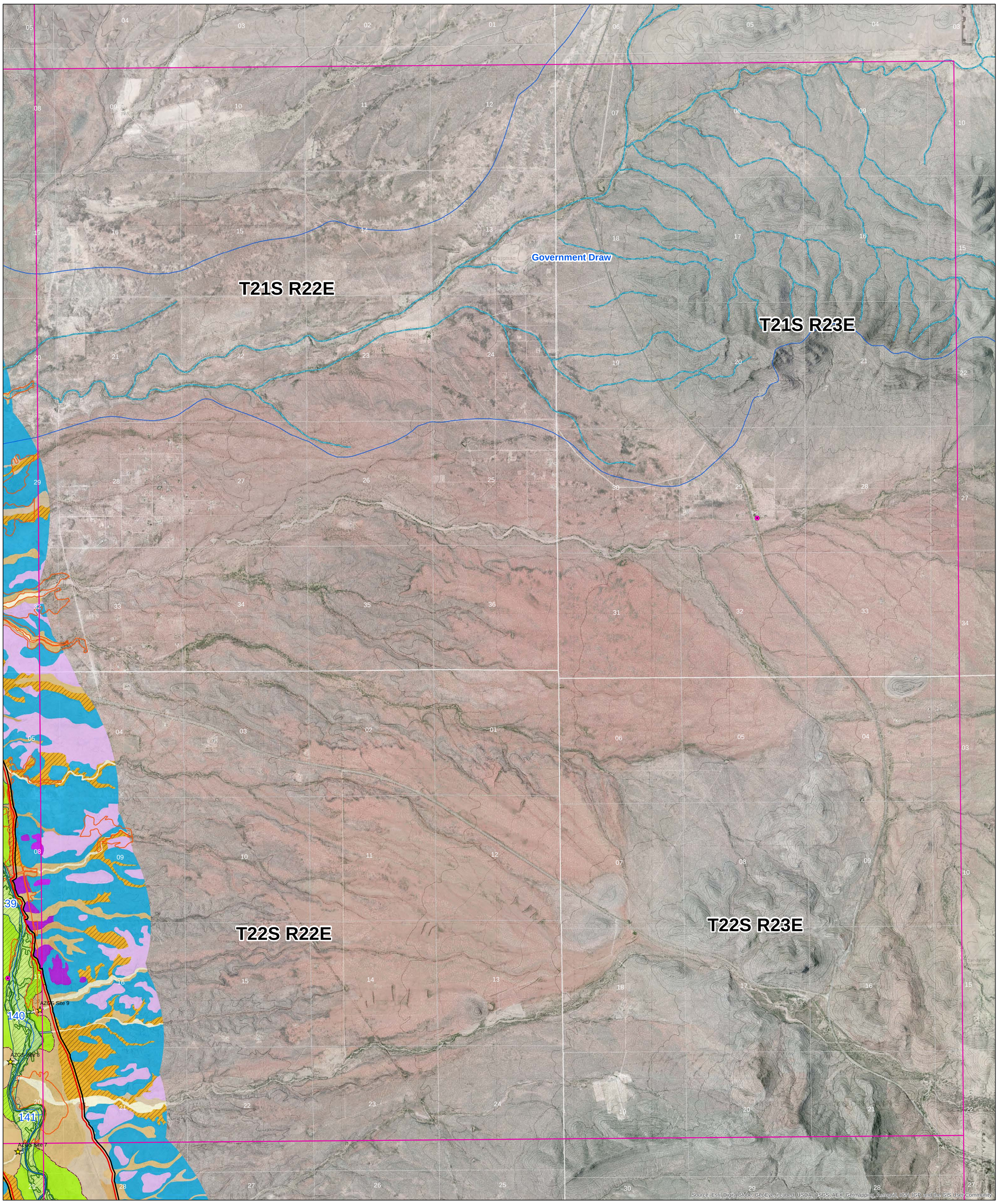


Workmap Series with Imagery and Topography

USGS Topo Quad: Lewis Springs

Map 5 of 33

Revised Subflow Zone Delineation Report
April 2014



Legend

- AZGS Sites

Well Logs
- Professional Log
- Driller's Log

Water Level Analysis
- GWSI well in Holocene
- River Centerline
- Perpendicular to River Centerline

USFW Riparian
- Cottonwood-Willow
- Mesquite-Salt Cedar

Tributary Drainages
- Major Basins (>50 sqmi)
- Washes

- FHA Extent
- Subflow Zone

Holocene River Alluvium
- Active river channel deposits
- Flood channel & low terrace deposits
- Historical river terrace deposits
- Latest Holocene to historical river terrace deposits
- Late to early Holocene river terrace deposits

Holocene Tributary Stream Alluvium
- Modern stream channel deposits
- Latest Holocene Alluvium
- Late Holocene alluvium
- Older Holocene alluvium

Holocene Piedmont Alluvium

Historic Composite Active Floodplain

Pleistocene River Alluvium
- Late Pleistocene river terrace deposits
- Middle to late Plesitocene river terrace deposits
- Early to middle Pleistocene river terrace deposits
- Pleistocene river deposits
- Early Pleistocene river channel alluvium
- Quaternary hillslope talus & colluvium

Pleistocene Piedmont Alluvium

Pleistocene Alluvium

Tertiary Piedmont Alluvium

Tertiary Basin Fill Allivuium

Bedrock Units

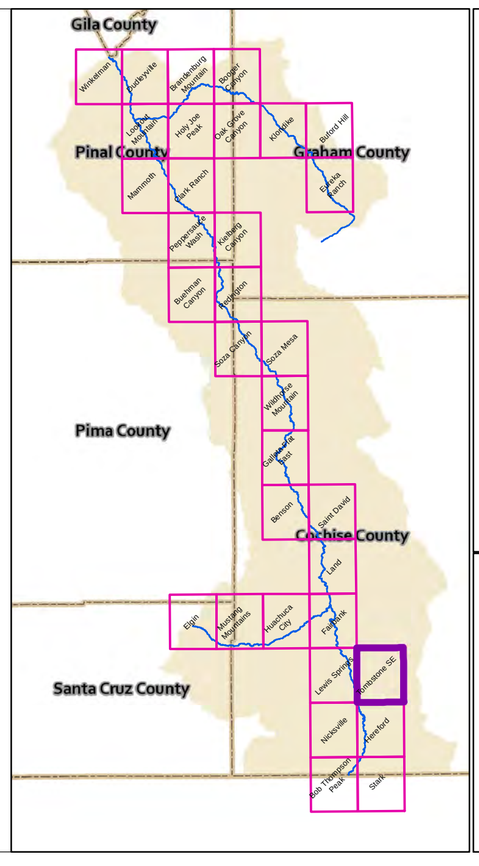
Disturbed Lands
- Disturbed
- Ditch
- Mining related

Basemap: ESRI World Imagery with Topography

1:24,000

0 1 2 Miles

N

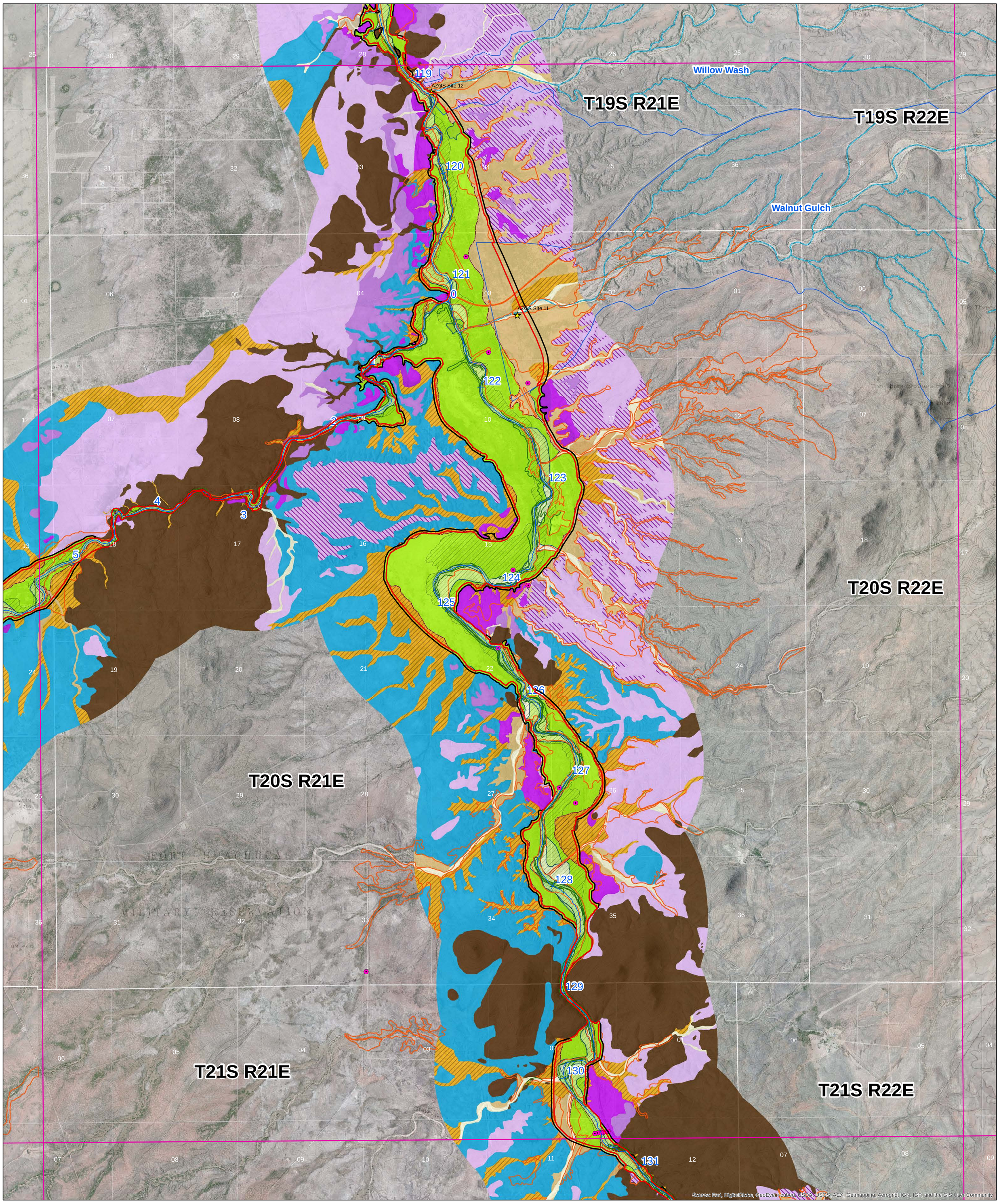


Workmap Series with Imagery and Topography

USGS Topo Quad: Tombstone SE

Map 6 of 33

Revised Subflow Zone Delineation Report
April 2014



Legend

- AZGS Sites

Well Logs
- Professional Log
- Driller's Log

Water Level Analysis
- GWSI well in Holocene
- River Centerline
- Perpendicular to River Centerline

USFW Riparian
- Cottonwood-Willow
- Mesquite-Salt Cedar

Tributary Drainages
- Major Basins (>50 sqmi)
- Washes

- FHA Extent
- Subflow Zone

Holocene River Alluvium
- Active river channel deposits
- Flood channel & low terrace deposits
- Historical river terrace deposits
- Latest Holocene to historical river terrace deposits
- Late to early Holocene river terrace deposits

Holocene Tributary Stream Alluvium
- Modern stream channel deposits
- Latest Holocene Alluvium
- Late Holocene alluvium
- Older Holocene alluvium

Holocene Piedmont Alluvium
- Historic Composite Active Floodplain

Pleistocene River Alluvium
- Late Pleistocene river terrace deposits
- Middle to late Plesitocene river terrace deposits
- Early to middle Pleistocene river terrace deposits
- Pleistocene river deposits
- Early Pleistocene river channel alluvium
- Quaternary hillslope talus & colluvium

Pleistocene Piedmont Alluvium

Pleistocene Alluvium

Tertiary Piedmont Alluvium

Tertiary Basin Fill Allivuium

Bedrock Units

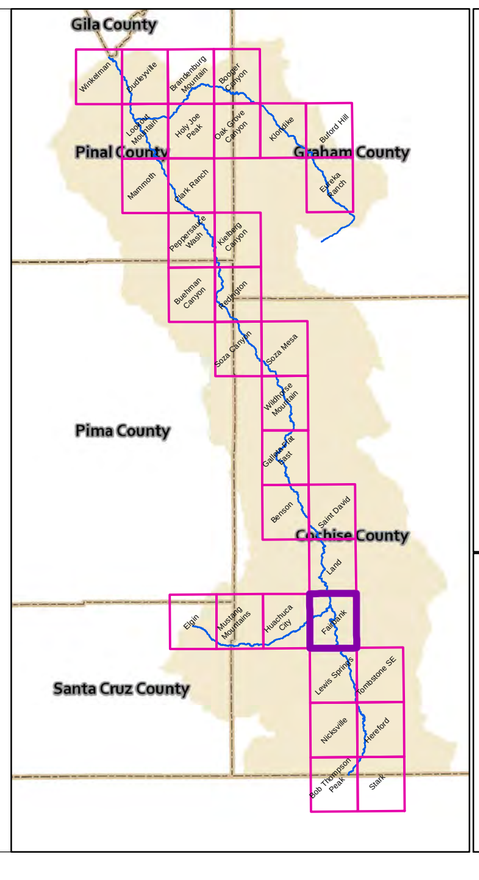
Disturbed Lands
- Disturbed
- Ditch
- Mining related

1:24,000

0 1 2 Miles

N

Basemap: ESRI World Imagery with Topography

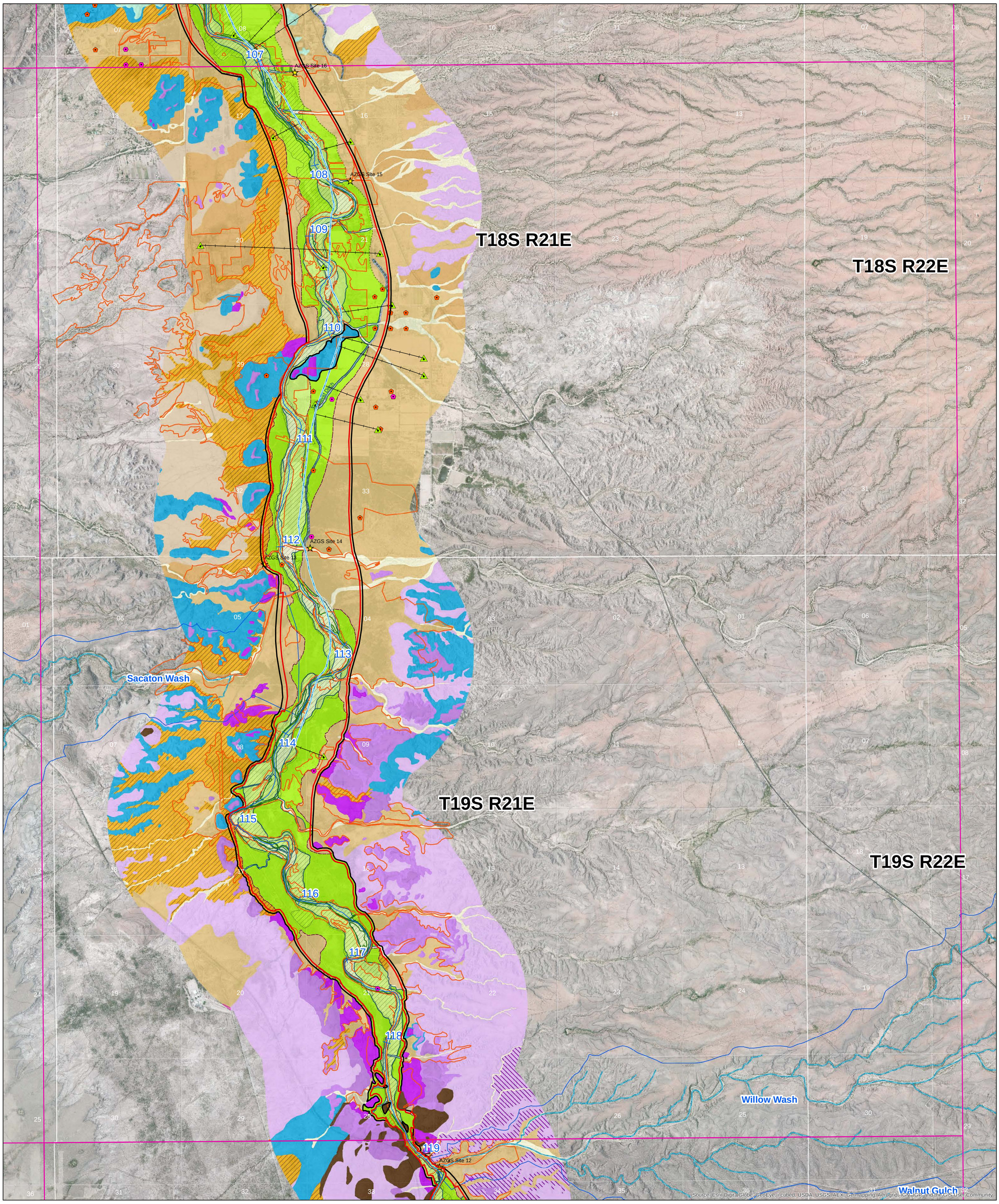


Workmap Series with Imagery and Topography

USGS Topo Quad: Fairbank

Map 7 of 33

Revised Subflow Zone Delineation Report
April 2014



Legend

- AZGS Sites

Well Logs
- Professional Log
- Driller's Log

Water Level Analysis
- GWSI well in Holocene
- River Centerline
- Perpendicular to River Centerline

USFW Riparian
- Cottonwood-Willow
- Mesquite-Salt Cedar

Tributary Drainages
- Major Basins (>50 sqmi)
- Washes

- FHA Extent
- Subflow Zone

Holocene River Alluvium
- Active river channel deposits
- Flood channel & low terrace deposits
- Historical river terrace deposits
- Latest Holocene to historical river terrace deposits
- Late to early Holocene river terrace deposits

Holocene Tributary Stream Alluvium
- Modern stream channel deposits
- Latest Holocene Alluvium
- Late Holocene alluvium
- Older Holocene alluvium

Holocene Piedmont Alluvium
- Historic Composite Active Floodplain

Pleistocene River Alluvium
- Late Pleistocene river terrace deposits
- Middle to late Plesitocene river terrace deposits
- Early to middle Pleistocene river terrace deposits
- Pleistocene river deposits
- Early Pleistocene river channel alluvium
- Quaternary hillslope talus & colluvium

Pleistocene Piedmont Alluvium

Pleistocene Alluvium

Tertiary Piedmont Alluvium

Tertiary Basin Fill Allivuium

Bedrock Units

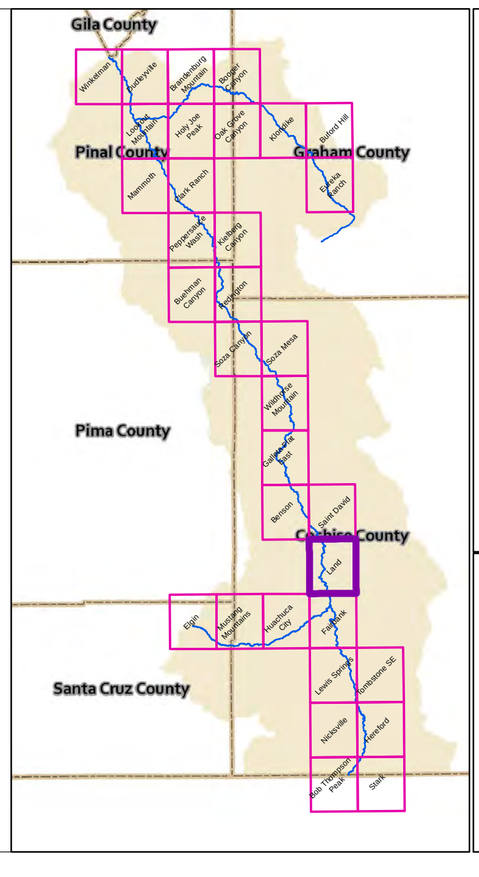
Disturbed Lands
- Disturbed
- Ditch
- Mining related

Basemap: ESRI World Imagery with Topography

1:24,000

0 1 2 Miles

N



Workmap Series with Imagery and Topography

USGS Topo Quad: Land

Map 8 of 33

Revised Subflow Zone Delineation Report
April 2014

T16S R21E

T16S R22E

T17S R21E

T17S R22E

Dragoon Wash

T18S R21E

T18S R22E

103

104

105

106

107

AZGS Site 19

AZGS Site 17

AZGS Site 18

AZGS Site 16

St David Ditch

Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

Legend

AZGS Sites

Well Logs

- Professional Log
- Driller's Log

Water Level Analysis

- GWSI well in Holocene
- River Centerline
- Perpendicular to River Centerline

USFW Riparian

- Cottonwood-Willow
- Mesquite-Salt Cedar

Tributary Drainages

- Major Basins (>50 sqmi)
- Washes

FHA Extent

Subflow Zone

Holocene River Alluvium

- Active river channel deposits
- Flood channel & low terrace deposits
- Historical river terrace deposits
- Latest Holocene to historical river terrace deposits
- Late to early Holocene river terrace deposits

Holocene Tributary Stream Alluvium

- Modern stream channel deposits
- Latest Holocene Alluvium
- Late Holocene alluvium
- Older Holocene alluvium

Holocene Piedmont Alluvium

Historic Composite Active Floodplain

Pleistocene River Alluvium

- Late Pleistocene river terrace deposits
- Middle to late Plesitocene river terrace deposits
- Early to middle Pleistocene river terrace deposits
- Pleistocene river deposits
- Early Pleistocene river channel alluvium
- Quaternary hillslope talus & colluvium

Pleistocene Piedmont Alluvium

Pleistocene Alluvium

Tertiary Piedmont Alluvium

Tertiary Basin Fill Allivuium

Bedrock Units

Disturbed Lands

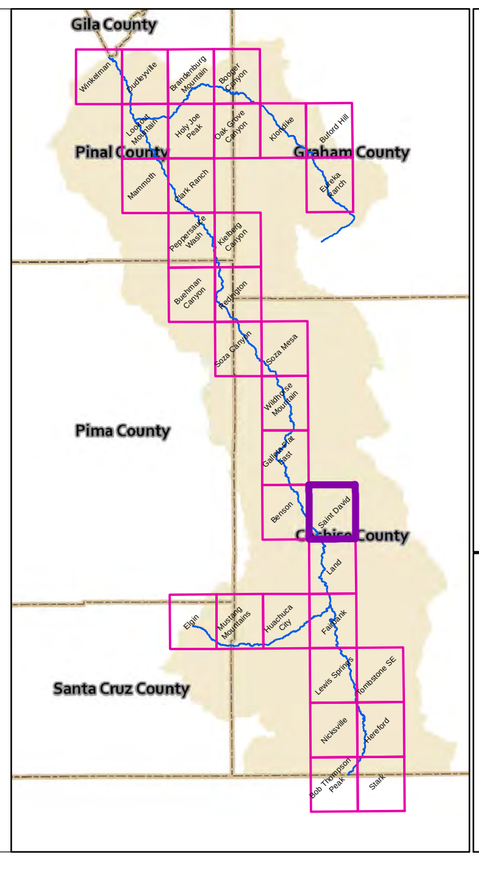
- Disturbed
- Ditch
- Mining related

Basemap: ESRI World Imagery with Topography

1:24,000

0 1 2 Miles

N

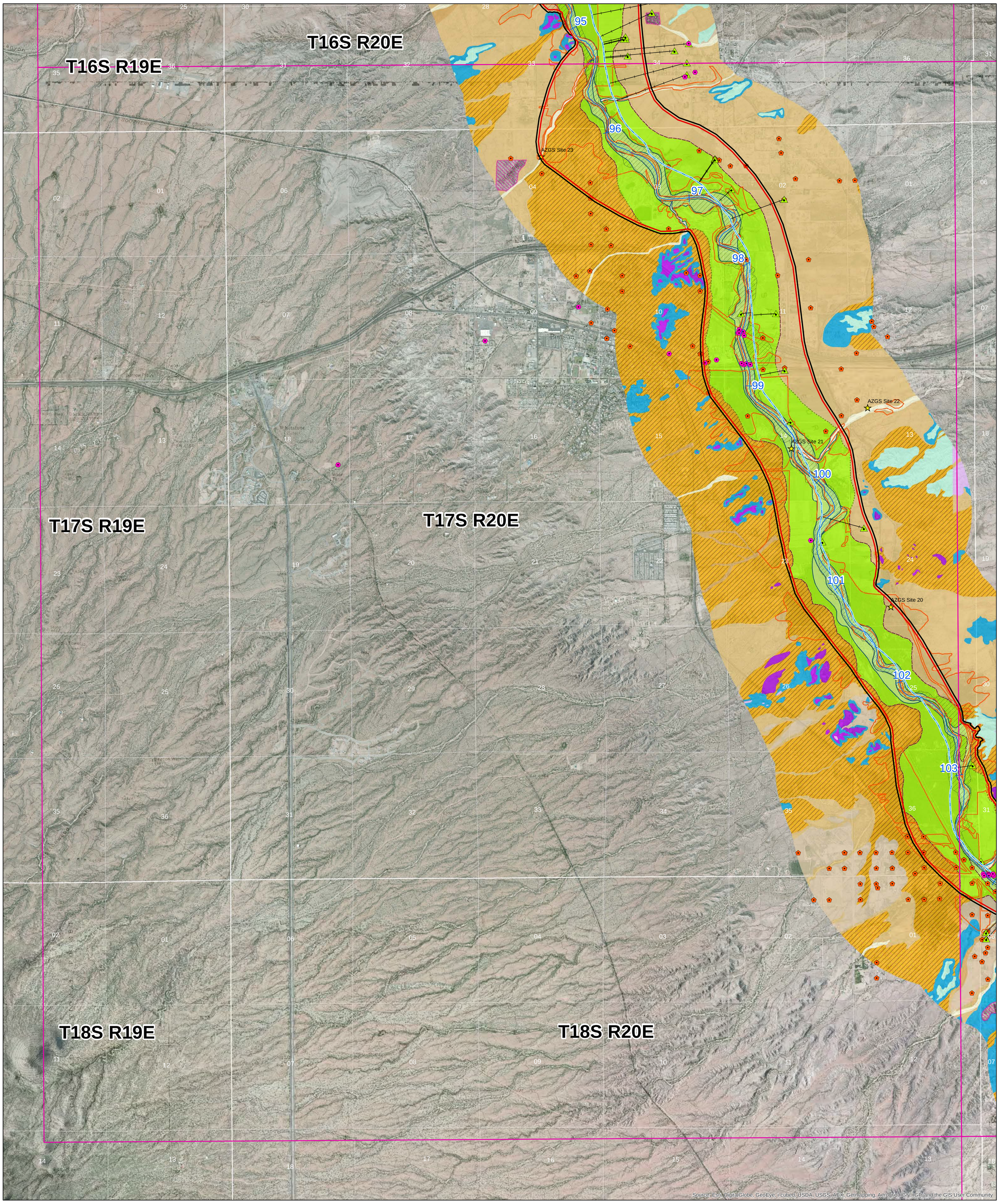


Workmap Series with Imagery and Topography

USGS Topo Quad: Saint David

Map 9 of 33

Revised Subflow Zone Delineation Report
April 2014



Legend

- AZGS Sites

Well Logs
- Professional Log
- Driller's Log

Water Level Analysis
- GWSI well in Holocene
- River Centerline
- Perpendicular to River Centerline

USFW Riparian
- Cottonwood-Willow
- Mesquite-Salt Cedar

Tributary Drainages
- Major Basins (>50 sqmi)
- Washes

- FHA Extent
- Subflow Zone

Holocene River Alluvium
- Active river channel deposits
- Flood channel & low terrace deposits
- Historical river terrace deposits
- Latest Holocene to historical river terrace deposits
- Late to early Holocene river terrace deposits

Holocene Tributary Stream Alluvium
- Modern stream channel deposits
- Latest Holocene Alluvium
- Late Holocene alluvium
- Older Holocene alluvium

Holocene Piedmont Alluvium

Historic Composite Active Floodplain

Pleistocene River Alluvium
- Late Pleistocene river terrace deposits
- Middle to late Plesitocene river terrace deposits
- Early to middle Pleistocene river terrace deposits
- Pleistocene river deposits
- Early Pleistocene river channel alluvium
- Quaternary hillslope talus & colluvium

Pleistocene Piedmont Alluvium

Pleistocene Alluvium

Tertiary Piedmont Alluvium

Tertiary Basin Fill Allivuium

Bedrock Units

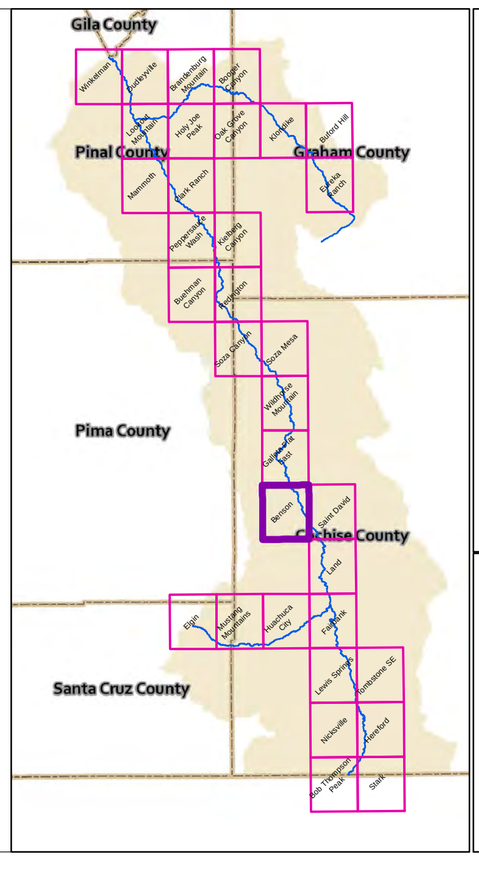
Disturbed Lands
- Disturbed
- Ditch
- Mining related

Basemap: ESRI World Imagery with Topography

1:24,000

0 1 2 Miles

N

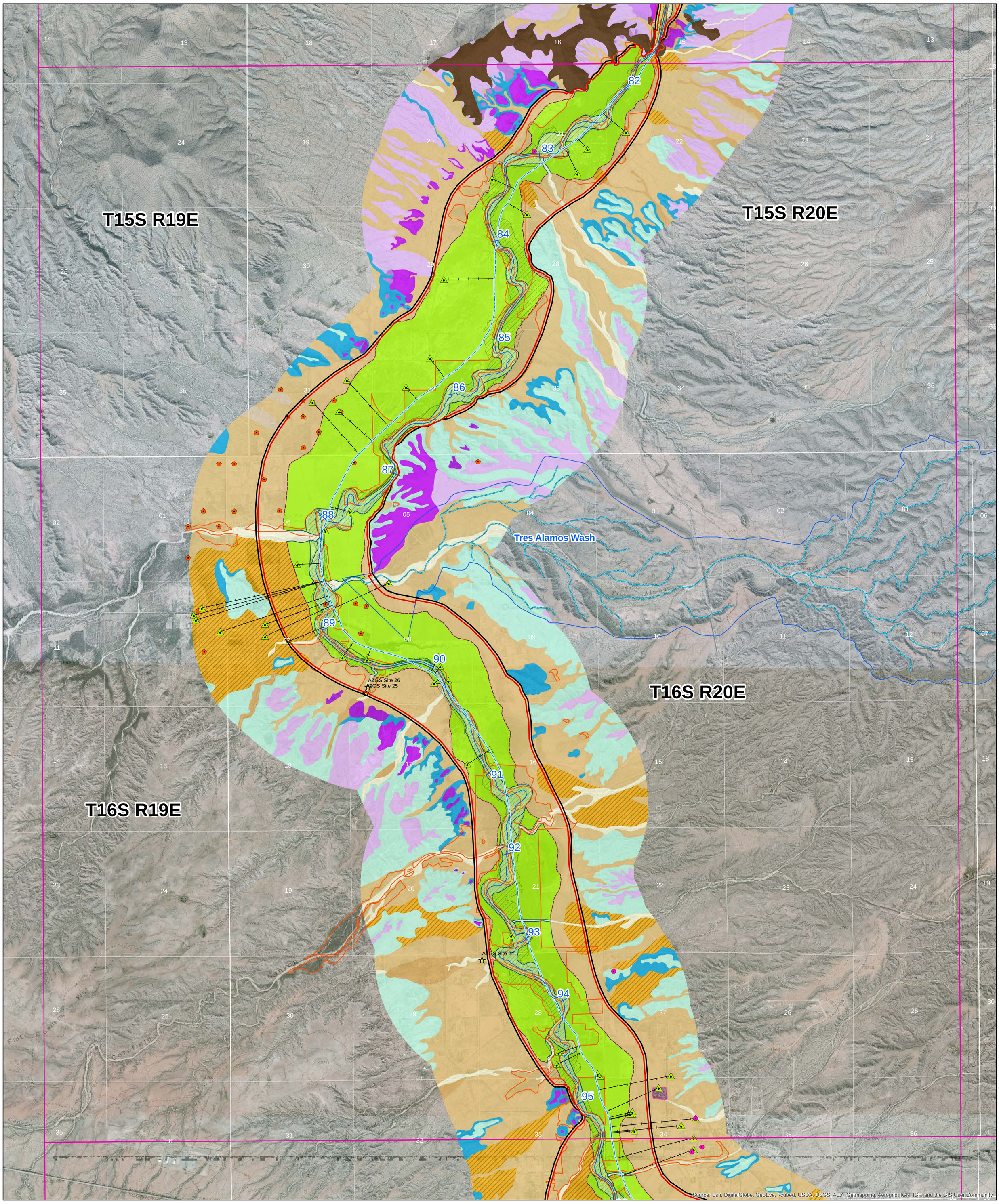


Workmap Series with Imagery and Topography

USGS Topo Quad: Benson

Map 10 of 33

Revised Subflow Zone Delineation Report
April 2014



Legend

AZGS Sites

Well Logs
- Professional Log
- Driller's Log

Water Level Analysis
- GWSI well in Holocene
- River Centerline
- Perpendicular to River Centerline

USFW Riparian
- Cottonwood-Willow
- Mesquite-Salt Cedar

Tributary Drainages
- Major Basins (>50 sqmi)
- Washes

FHA Extent

Subflow Zone

Holocene River Alluvium
- Active river channel deposits
- Flood channel & low terrace deposits
- Historical river terrace deposits
- Latest Holocene to historical river terrace deposits
- Late to early Holocene river terrace deposits

Holocene Tributary Stream Alluvium
- Modern stream channel deposits
- Latest Holocene Alluvium
- Late Holocene alluvium
- Older Holocene alluvium

Holocene Piedmont Alluvium

Historic Composite Active Floodplain

Pleistocene River Alluvium
- Late Pleistocene river terrace deposits
- Middle to late Plesitocene river terrace deposits
- Early to middle Pleistocene river terrace deposits
- Pleistocene river deposits
- Early Pleistocene river channel alluvium
- Quaternary hillslope talus & colluvium

Pleistocene Piedmont Alluvium

Pleistocene Alluvium

Tertiary Piedmont Alluvium

Tertiary Basin Fill Allivuium

Bedrock Units

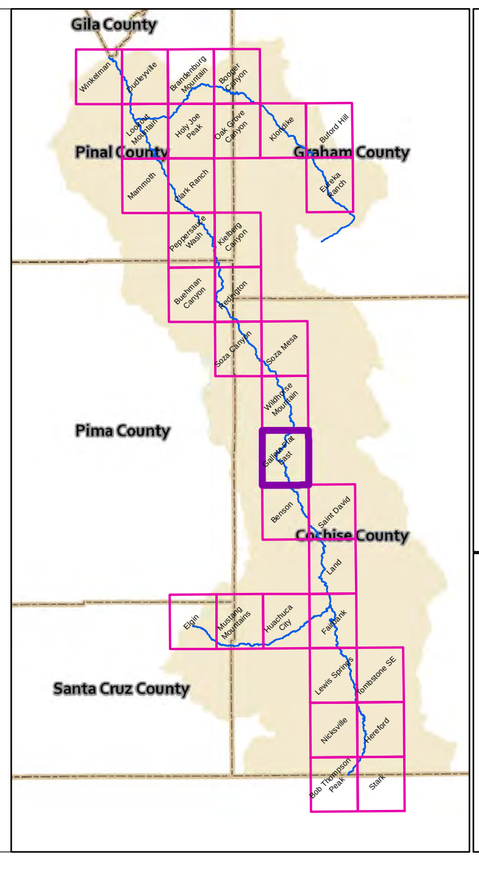
Disturbed Lands
- Disturbed
- Ditch
- Mining related

Basemap: ESRI World Imagery with Topography

1:24,000

0 1 2 Miles

N

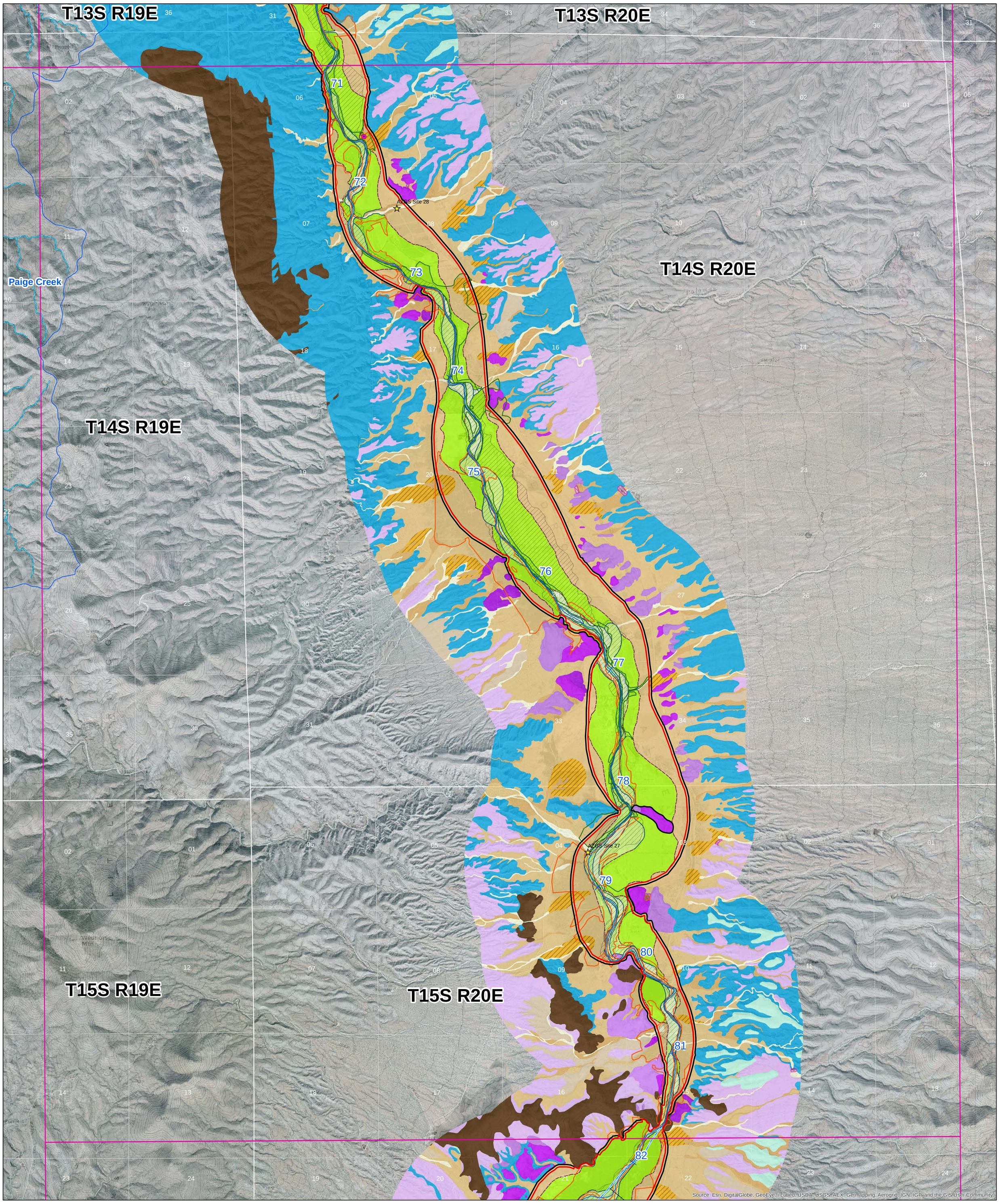


Workmap Series with Imagery and Topography

USGS Topo Quad: Galleta Flat East

Map 11 of 33

Revised Subflow Zone Delineation Report
April 2014



Legend

- AZGS Sites

Well Logs
- Professional Log
- Driller's Log

Water Level Analysis
- GWSI well in Holocene
- River Centerline
- Perpendicular to River Centerline

USFW Riparian
- Cottonwood-Willow
- Mesquite-Salt Cedar

Tributary Drainages
- Major Basins (>50 sqmi)
- Washes

- FHA Extent
- Subflow Zone

Holocene River Alluvium
- Active river channel deposits
- Flood channel & low terrace deposits
- Historical river terrace deposits
- Latest Holocene to historical river terrace deposits
- Late to early Holocene river terrace deposits

Holocene Tributary Stream Alluvium
- Modern stream channel deposits
- Latest Holocene Alluvium
- Late Holocene alluvium
- Older Holocene alluvium

Holocene Piedmont Alluvium
- Historic Composite Active Floodplain

Pleistocene River Alluvium
- Late Pleistocene river terrace deposits
- Middle to late Plesitocene river terrace deposits
- Early to middle Pleistocene river terrace deposits
- Pleistocene river deposits
- Early Pleistocene river channel alluvium
- Quaternary hillslope talus & colluvium

Pleistocene Piedmont Alluvium

Pleistocene Alluvium

Tertiary Piedmont Alluvium

Tertiary Basin Fill Allivuium

Bedrock Units

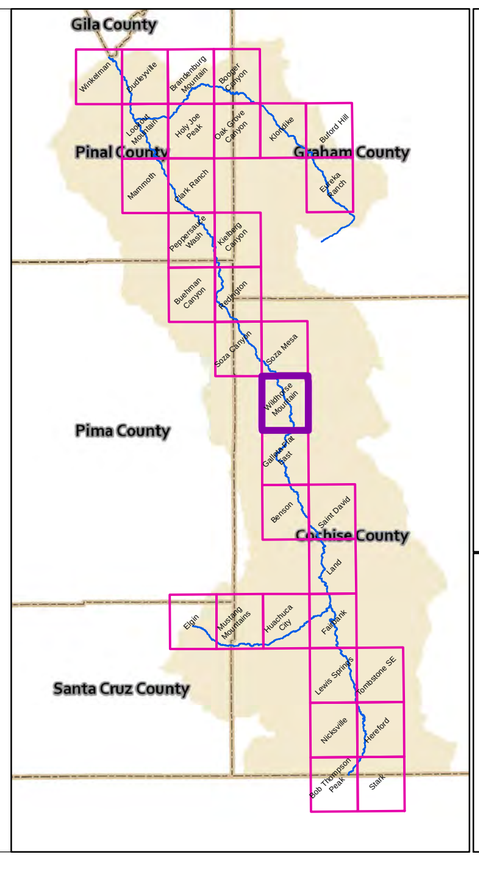
Disturbed Lands
- Disturbed
- Ditch
- Mining related

Basemap: ESRI World Imagery with Topography

1:24,000

0 1 2 Miles

N

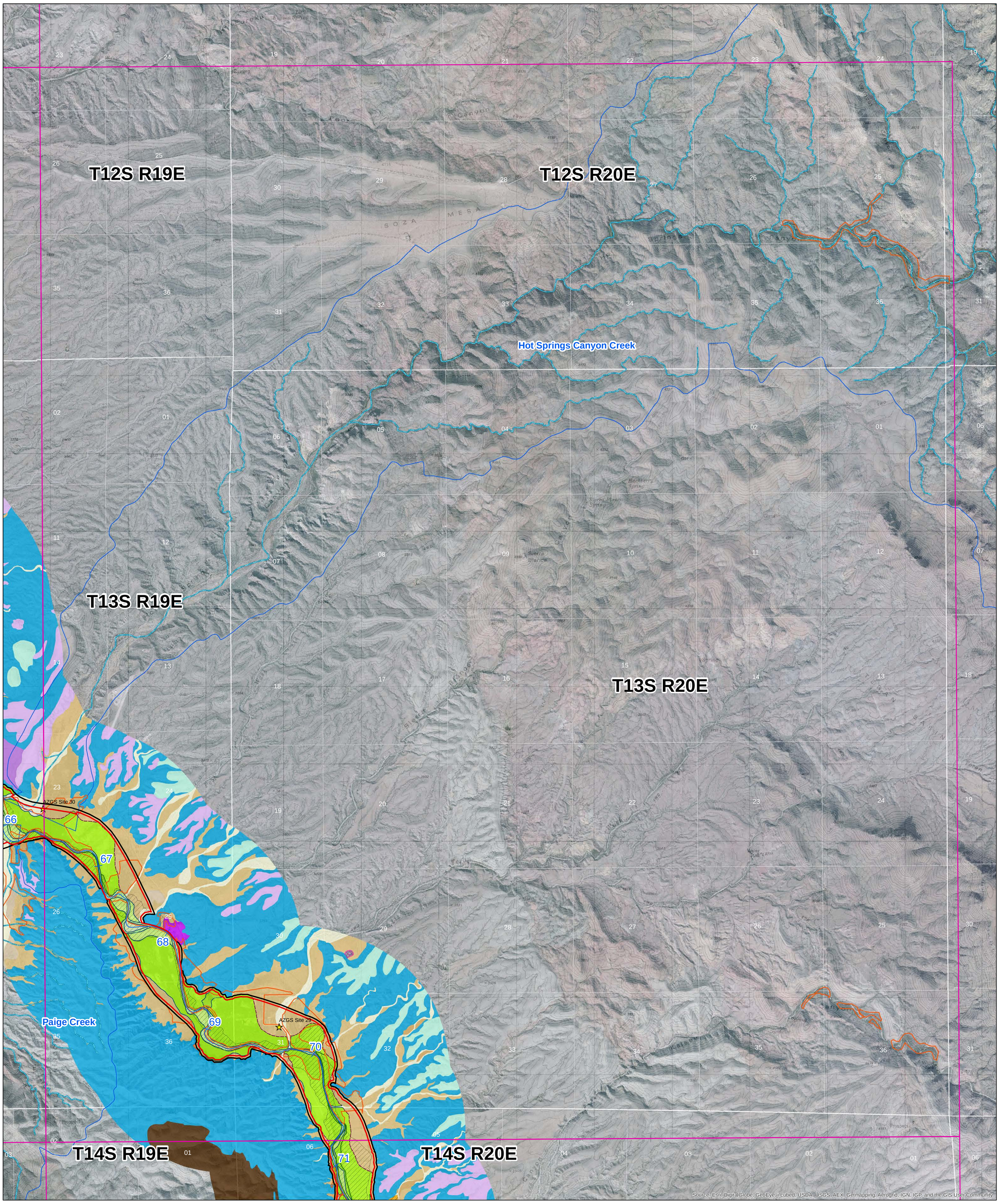


Workmap Series with Imagery and Topography

USGS Topo Quad: Wildhorse Mountain

Map 12 of 33

Revised Subflow Zone Delineation Report
April 2014



Legend

- AZGS Sites

Well Logs
- Professional Log
- Driller's Log

Water Level Analysis
- GWSI well in Holocene
- River Centerline
- Perpendicular to River Centerline

USFW Riparian
- Cottonwood-Willow
- Mesquite-Salt Cedar

Tributary Drainages
- Major Basins (>50 sqmi)
- Washes

- FHA Extent
- Subflow Zone

Holocene River Alluvium
- Active river channel deposits
- Flood channel & low terrace deposits
- Historical river terrace deposits
- Latest Holocene to historical river terrace deposits
- Late to early Holocene river terrace deposits

Holocene Tributary Stream Alluvium
- Modern stream channel deposits
- Latest Holocene Alluvium
- Late Holocene alluvium
- Older Holocene alluvium

Holocene Piedmont Alluvium
- Historic Composite Active Floodplain

Pleistocene River Alluvium
- Late Pleistocene river terrace deposits
- Middle to late Plesitocene river terrace deposits
- Early to middle Pleistocene river terrace deposits
- Pleistocene river deposits
- Early Pleistocene river channel alluvium
- Quaternary hillslope talus & colluvium

Pleistocene Piedmont Alluvium

Pleistocene Alluvium

Tertiary Piedmont Alluvium

Tertiary Basin Fill Allivuium

Bedrock Units

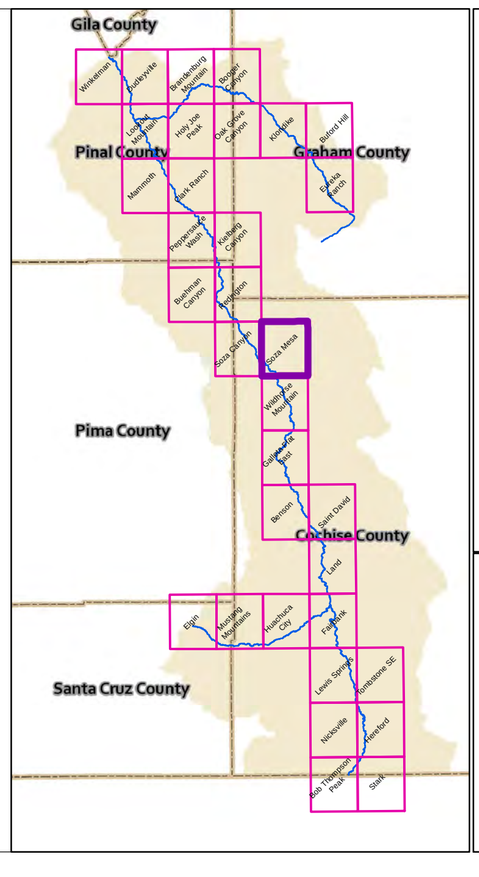
Disturbed Lands
- Disturbed
- Ditch
- Mining related

1:24,000

0 1 2 Miles

N

Basemap: ESRI World Imagery with Topography

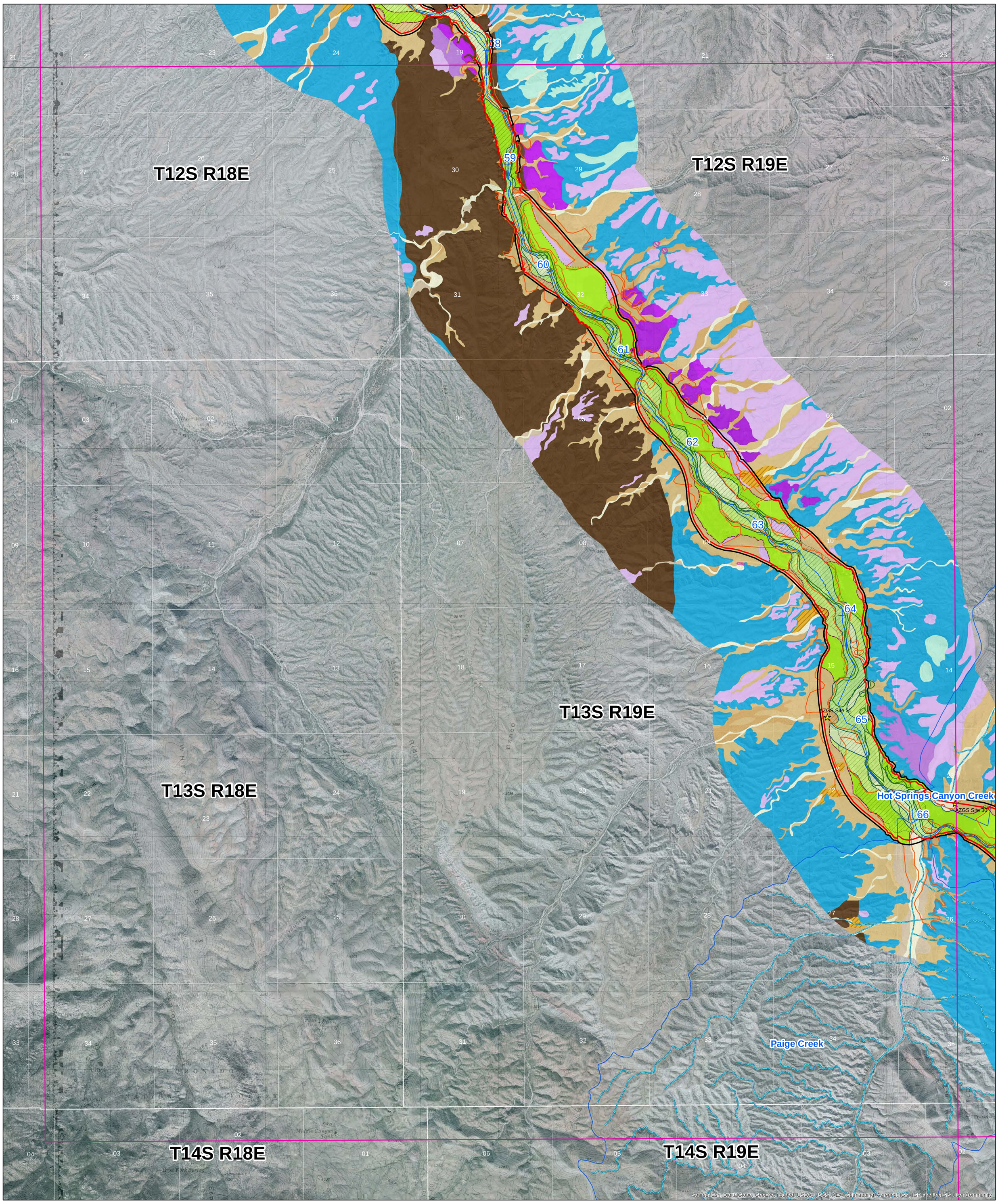


Workmap Series with Imagery and Topography

USGS Topo Quad: Soza Mesa

Map 13 of 33

Revised Subflow Zone Delineation Report
April 2014



Legend

- AZGS Sites

Well Logs
- Professional Log
- Driller's Log

Water Level Analysis
- GWSI well in Holocene
- River Centerline
- Perpendicular to River Centerline

USFW Riparian
- Cottonwood-Willow
- Mesquite-Salt Cedar

Tributary Drainages
- Major Basins (>50 sqmi)
- Washes

- FHA Extent
- Subflow Zone

Holocene River Alluvium
- Active river channel deposits
- Flood channel & low terrace deposits
- Historical river terrace deposits
- Latest Holocene to historical river terrace deposits
- Late to early Holocene river terrace deposits

Holocene Tributary Stream Alluvium
- Modern stream channel deposits
- Latest Holocene Alluvium
- Late Holocene alluvium
- Older Holocene alluvium

Holocene Piedmont Alluvium

- Historic Composite Active Floodplain

Pleistocene River Alluvium
- Late Pleistocene river terrace deposits
- Middle to late Plesitocene river terrace deposits
- Early to middle Pleistocene river terrace deposits
- Pleistocene river deposits
- Early Pleistocene river channel alluvium
- Quaternary hillslope talus & colluvium

Pleistocene Piedmont Alluvium

Pleistocene Alluvium

Tertiary Piedmont Alluvium

Tertiary Basin Fill Allivuium

Bedrock Units

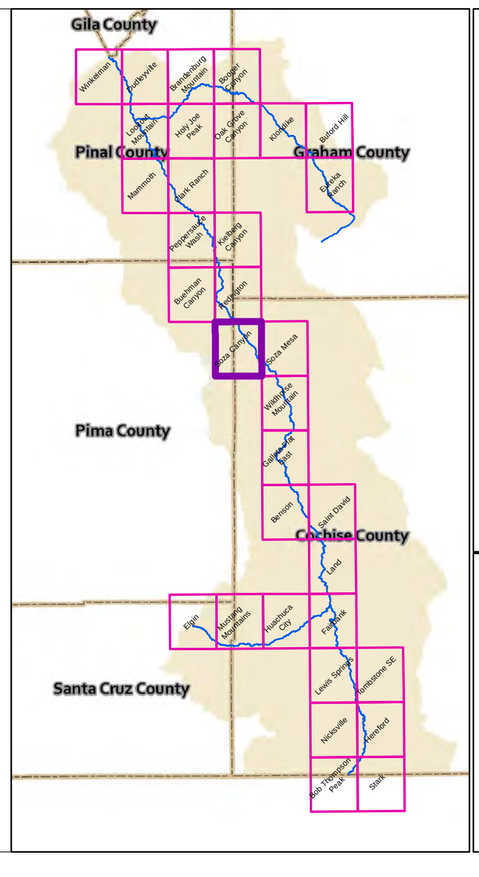
Disturbed Lands
- Disturbed
- Ditch
- Mining related

Basemap: ESRI World Imagery with Topography

1:24,000

0 1 2 Miles

N

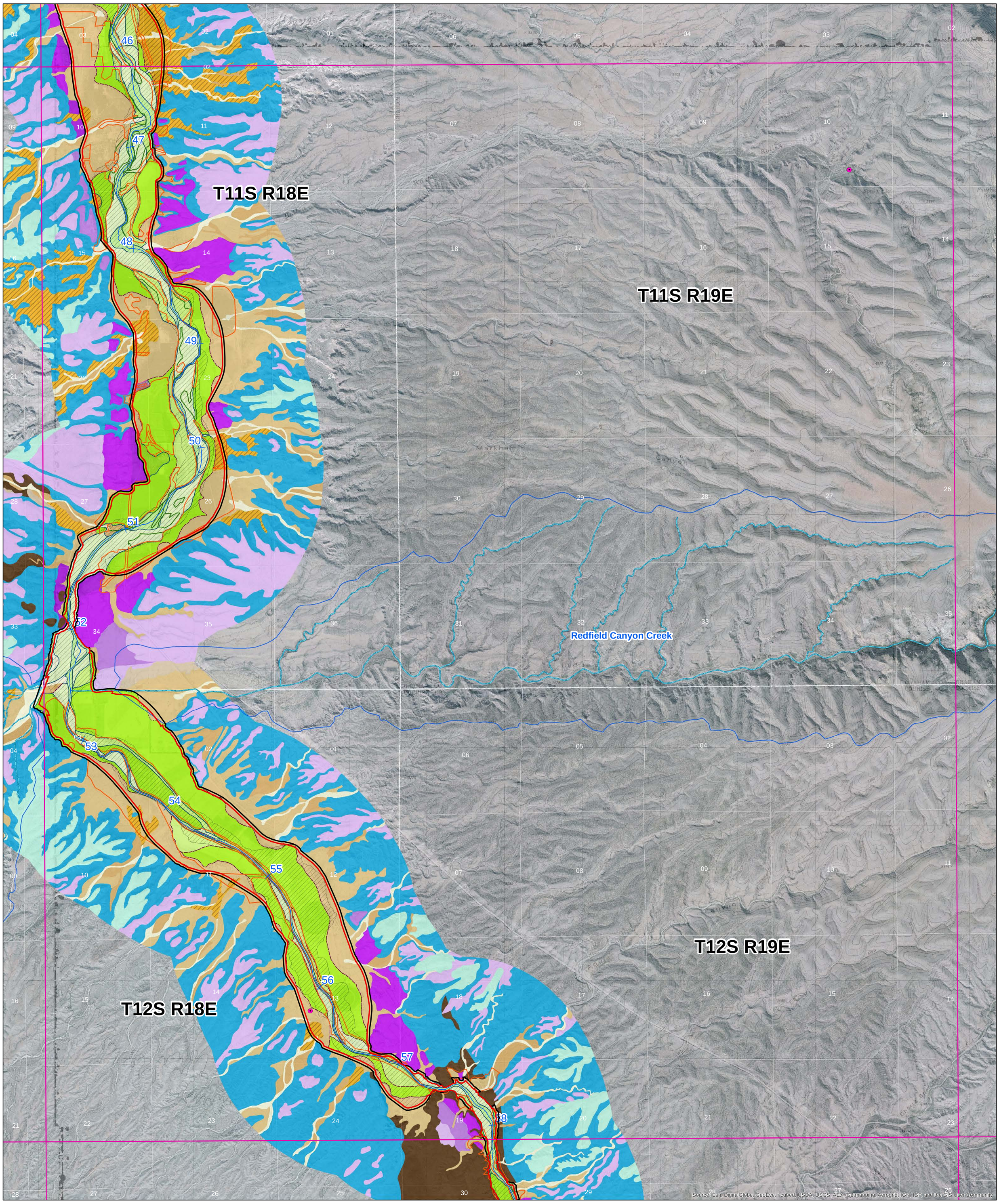


Workmap Series with Imagery and Topography

USGS Topo Quad: Soza Canyon

Map 14 of 33

Revised Subflow Zone Delineation Report
April 2014



Legend

- AZGS Sites

Well Logs
- Professional Log
- Driller's Log

Water Level Analysis
- GWSI well in Holocene
- River Centerline
- Perpendicular to River Centerline

USFW Riparian
- Cottonwood-Willow
- Mesquite-Salt Cedar

Tributary Drainages
- Major Basins (>50 sqmi)
- Washes

- FHA Extent
- Subflow Zone

Holocene River Alluvium
- Active river channel deposits
- Flood channel & low terrace deposits
- Historical river terrace deposits
- Latest Holocene to historical river terrace deposits
- Late to early Holocene river terrace deposits

Holocene Tributary Stream Alluvium
- Modern stream channel deposits
- Latest Holocene Alluvium
- Late Holocene alluvium
- Older Holocene alluvium

Holocene Piedmont Alluvium
- Historic Composite Active Floodplain

Pleistocene River Alluvium
- Late Pleistocene river terrace deposits
- Middle to late Plesitocene river terrace deposits
- Early to middle Pleistocene river terrace deposits
- Pleistocene river deposits
- Early Pleistocene river channel alluvium
- Quaternary hillslope talus & colluvium

Pleistocene Piedmont Alluvium

Pleistocene Alluvium

Tertiary Piedmont Alluvium

Tertiary Basin Fill Allivuium

Bedrock Units

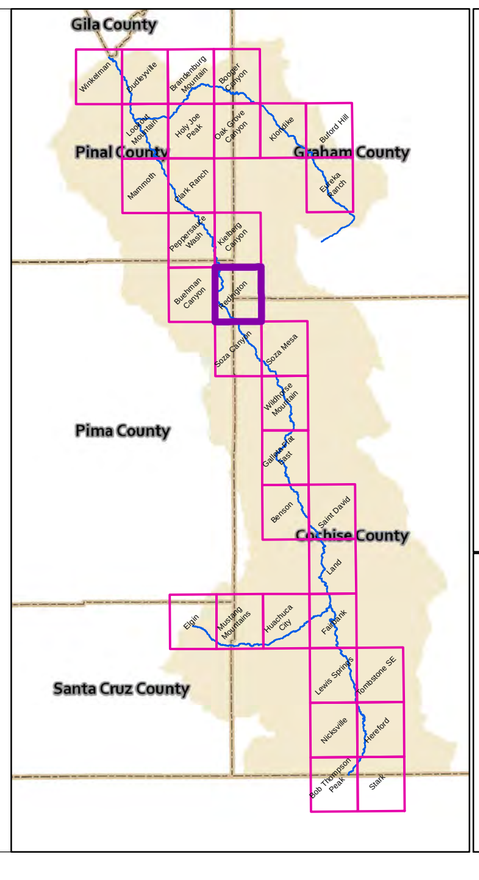
Disturbed Lands
- Disturbed
- Ditch
- Mining related

Basemap: ESRI World Imagery with Topography

1:24,000

0 1 2 Miles

N

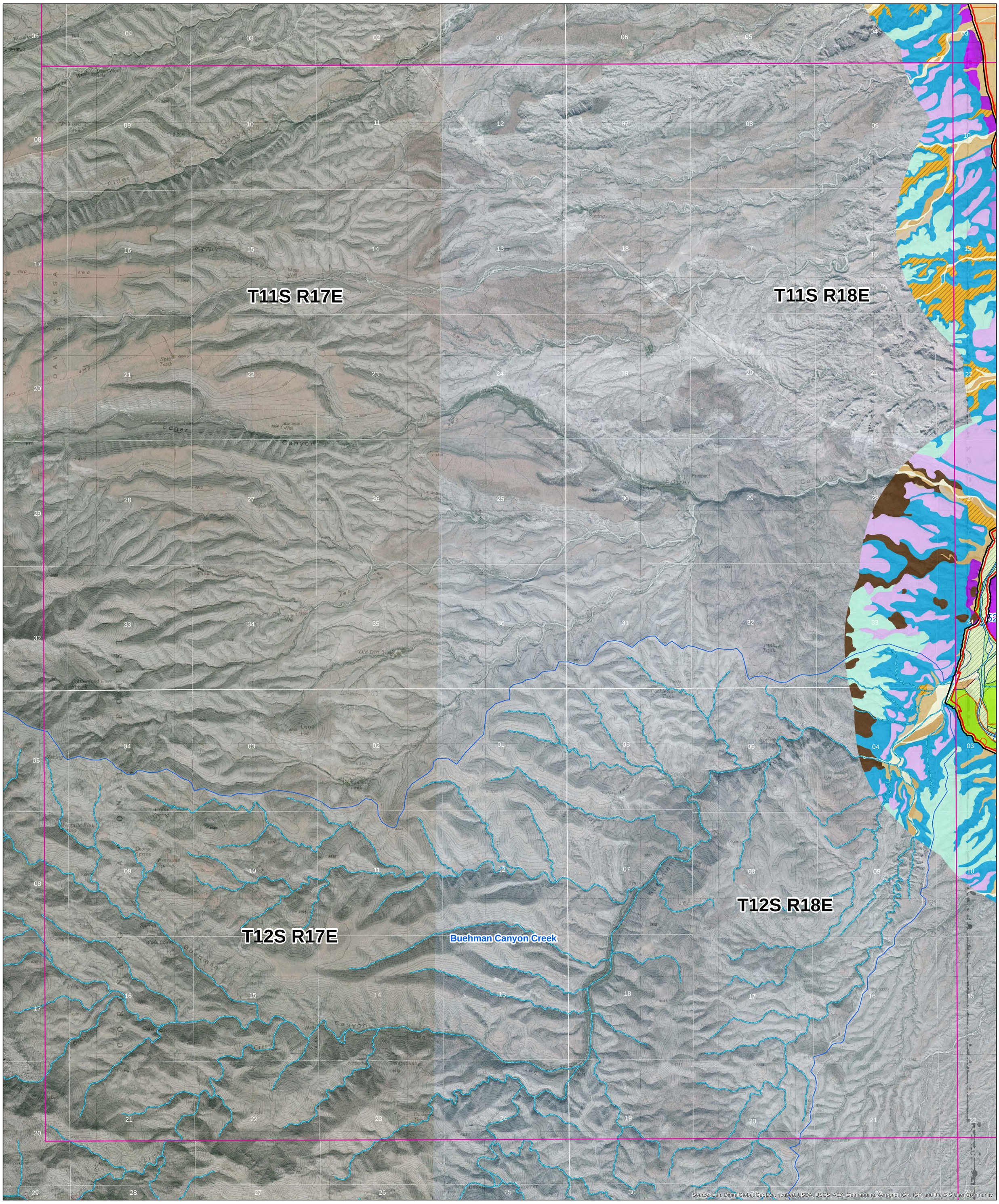


Workmap Series with Imagery and Topography

USGS Topo Quad: Redington

Map 15 of 33

Revised Subflow Zone Delineation Report
April 2014



Legend

AZGS Sites

Well Logs
- Professional Log
- Driller's Log

Water Level Analysis
- GWSI well in Holocene
- River Centerline
- Perpendicular to River Centerline

USFW Riparian
- Cottonwood-Willow
- Mesquite-Salt Cedar

Tributary Drainages
- Major Basins (>50 sqmi)
- Washes

FHA Extent

Subflow Zone

Holocene River Alluvium
- Active river channel deposits
- Flood channel & low terrace deposits
- Historical river terrace deposits
- Latest Holocene to historical river terrace deposits
- Late to early Holocene river terrace deposits

Holocene Tributary Stream Alluvium
- Modern stream channel deposits
- Latest Holocene Alluvium
- Late Holocene alluvium
- Older Holocene alluvium

Holocene Piedmont Alluvium

Historic Composite Active Floodplain

Pleistocene River Alluvium
- Late Pleistocene river terrace deposits
- Middle to late Plesitocene river terrace deposits
- Early to middle Pleistocene river terrace deposits
- Pleistocene river deposits
- Early Pleistocene river channel alluvium
- Quaternary hillslope talus & colluvium

Pleistocene Piedmont Alluvium

Pleistocene Alluvium

Tertiary Piedmont Alluvium

Tertiary Basin Fill Allivuium

Bedrock Units

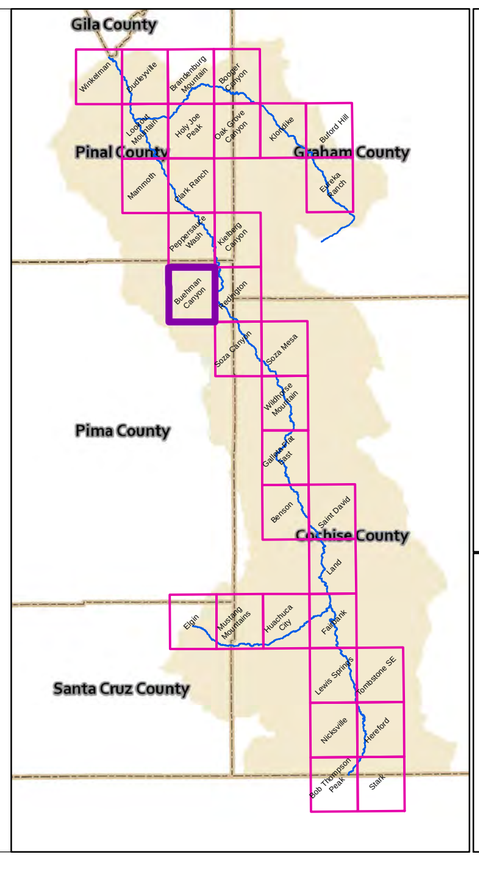
Disturbed Lands
- Disturbed
- Ditch
- Mining related

1:24,000

0 1 2 Miles

N

Basemap: ESRI World Imagery with Topography

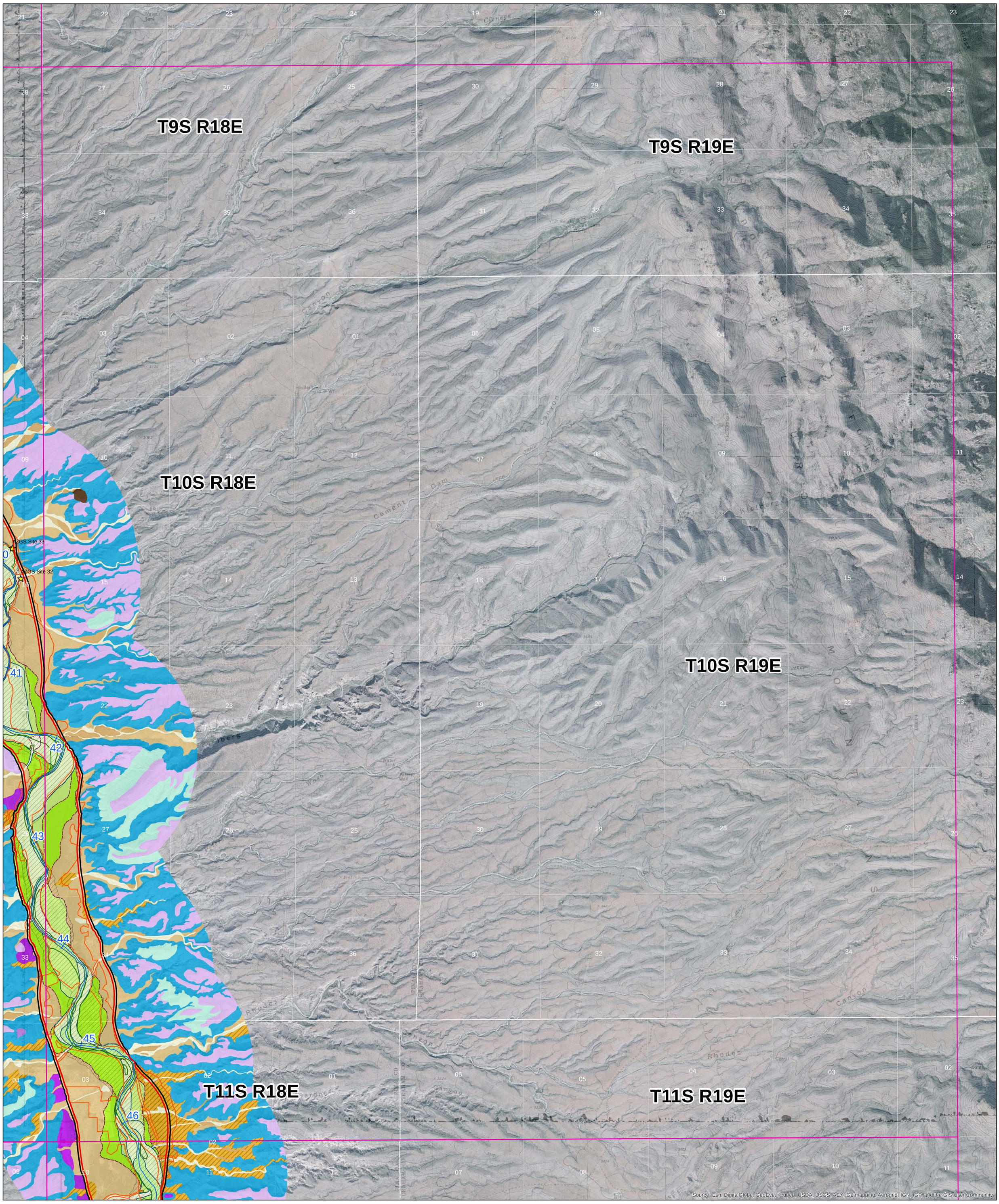


Workmap Series with Imagery and Topography

USGS Topo Quad: Buehman Canyon

Map 16 of 33

Revised Subflow Zone Delineation Report
April 2014



Legend

- AZGS Sites

Well Logs
- Professional Log
- Driller's Log

Water Level Analysis
- GWSI well in Holocene
- River Centerline
- Perpendicular to River Centerline

USFW Riparian
- Cottonwood-Willow
- Mesquite-Salt Cedar

Tributary Drainages
- Major Basins (>50 sqmi)
- Washes

- FHA Extent
- Subflow Zone

Holocene River Alluvium
- Active river channel deposits
- Flood channel & low terrace deposits
- Historical river terrace deposits
- Latest Holocene to historical river terrace deposits
- Late to early Holocene river terrace deposits

Holocene Tributary Stream Alluvium
- Modern stream channel deposits
- Latest Holocene Alluvium
- Late Holocene alluvium
- Older Holocene alluvium

Holocene Piedmont Alluvium
- Historic Composite Active Floodplain

Pleistocene River Alluvium
- Late Pleistocene river terrace deposits
- Middle to late Plesitocene river terrace deposits
- Early to middle Pleistocene river terrace deposits
- Pleistocene river deposits
- Early Pleistocene river channel alluvium
- Quaternary hillslope talus & colluvium

Pleistocene Piedmont Alluvium

Pleistocene Alluvium

Tertiary Piedmont Alluvium

Tertiary Basin Fill Allivuium

Bedrock Units

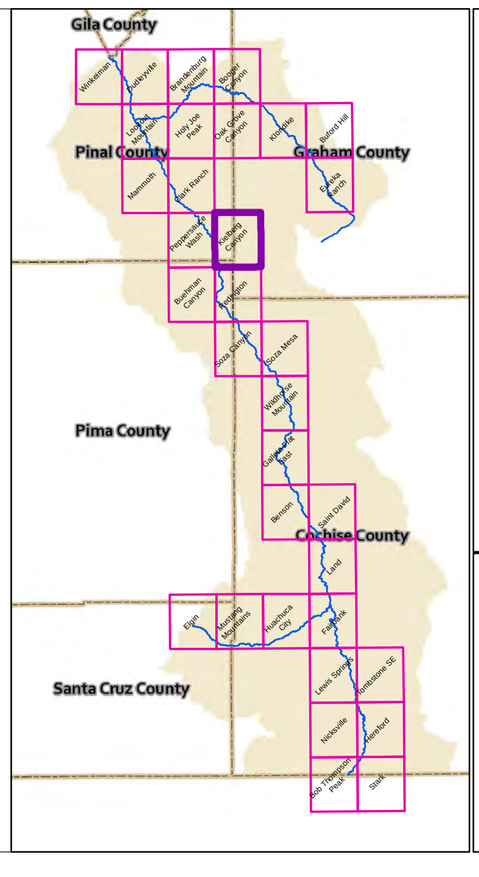
Disturbed Lands
- Disturbed
- Ditch
- Mining related

Basemap: ESRI World Imagery with Topography

1:24,000

0 1 2 Miles

N

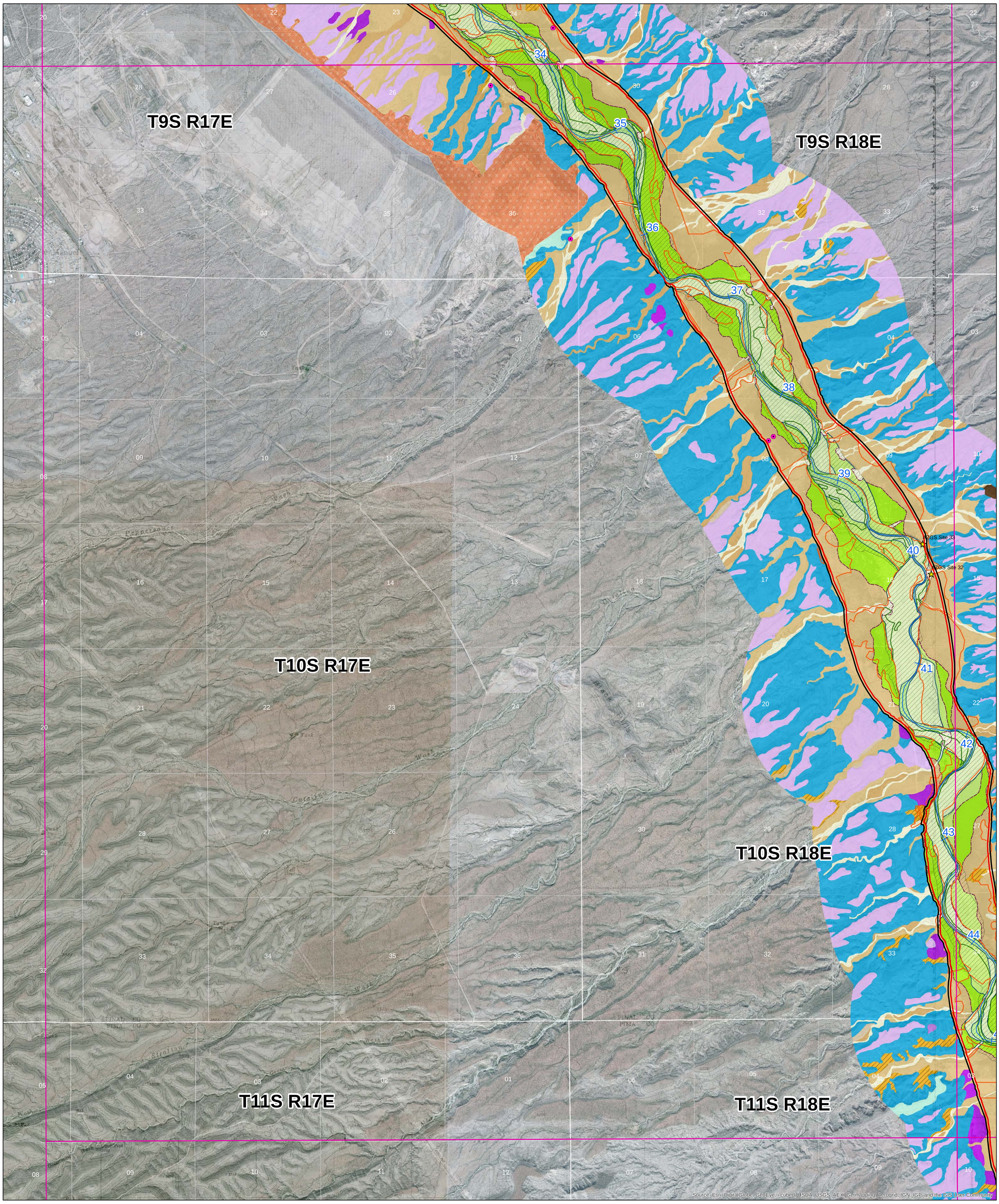


Workmap Series with Imagery and Topography

USGS Topo Quad: Kielberg Canyon

Map 17 of 33

Revised Subflow Zone Delineation Report
April 2014



Legend

- AZGS Sites

Well Logs
- Professional Log
- Driller's Log

Water Level Analysis
- GWSI well in Holocene
- River Centerline
- Perpendicular to River Centerline

USFW Riparian
- Cottonwood-Willow
- Mesquite-Salt Cedar

Tributary Drainages
- Major Basins (>50 sqmi)
- Washes

- FHA Extent
- Subflow Zone

Holocene River Alluvium
- Active river channel deposits
- Flood channel & low terrace deposits
- Historical river terrace deposits
- Latest Holocene to historical river terrace deposits
- Late to early Holocene river terrace deposits

Holocene Tributary Stream Alluvium
- Modern stream channel deposits
- Latest Holocene Alluvium
- Late Holocene alluvium
- Older Holocene alluvium

Holocene Piedmont Alluvium

Historic Composite Active Floodplain

Pleistocene River Alluvium
- Late Pleistocene river terrace deposits
- Middle to late Plesitocene river terrace deposits
- Early to middle Pleistocene river terrace deposits
- Pleistocene river deposits
- Early Pleistocene river channel alluvium
- Quaternary hillslope talus & colluvium

Pleistocene Piedmont Alluvium

Pleistocene Alluvium

Tertiary Piedmont Alluvium

Tertiary Basin Fill Allivuium

Bedrock Units

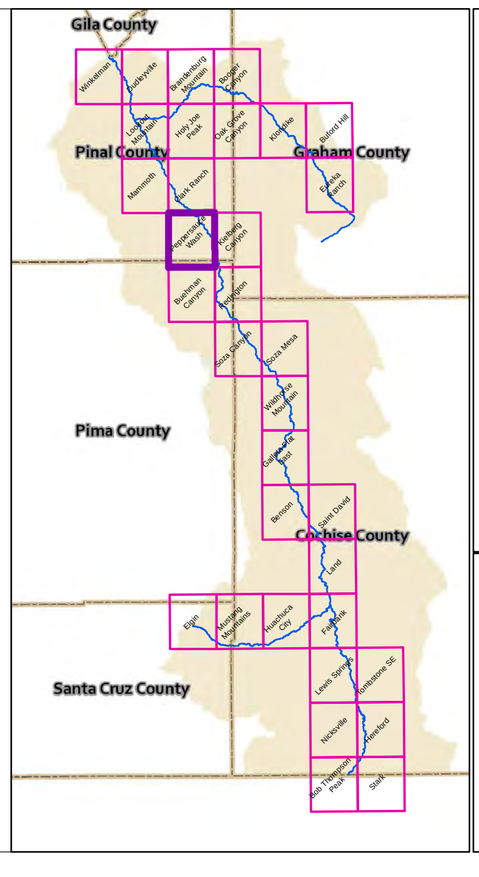
Disturbed Lands
- Disturbed
- Ditch
- Mining related

1:24,000

0 1 2 Miles

N

Basemap: ESRI World Imagery with Topography

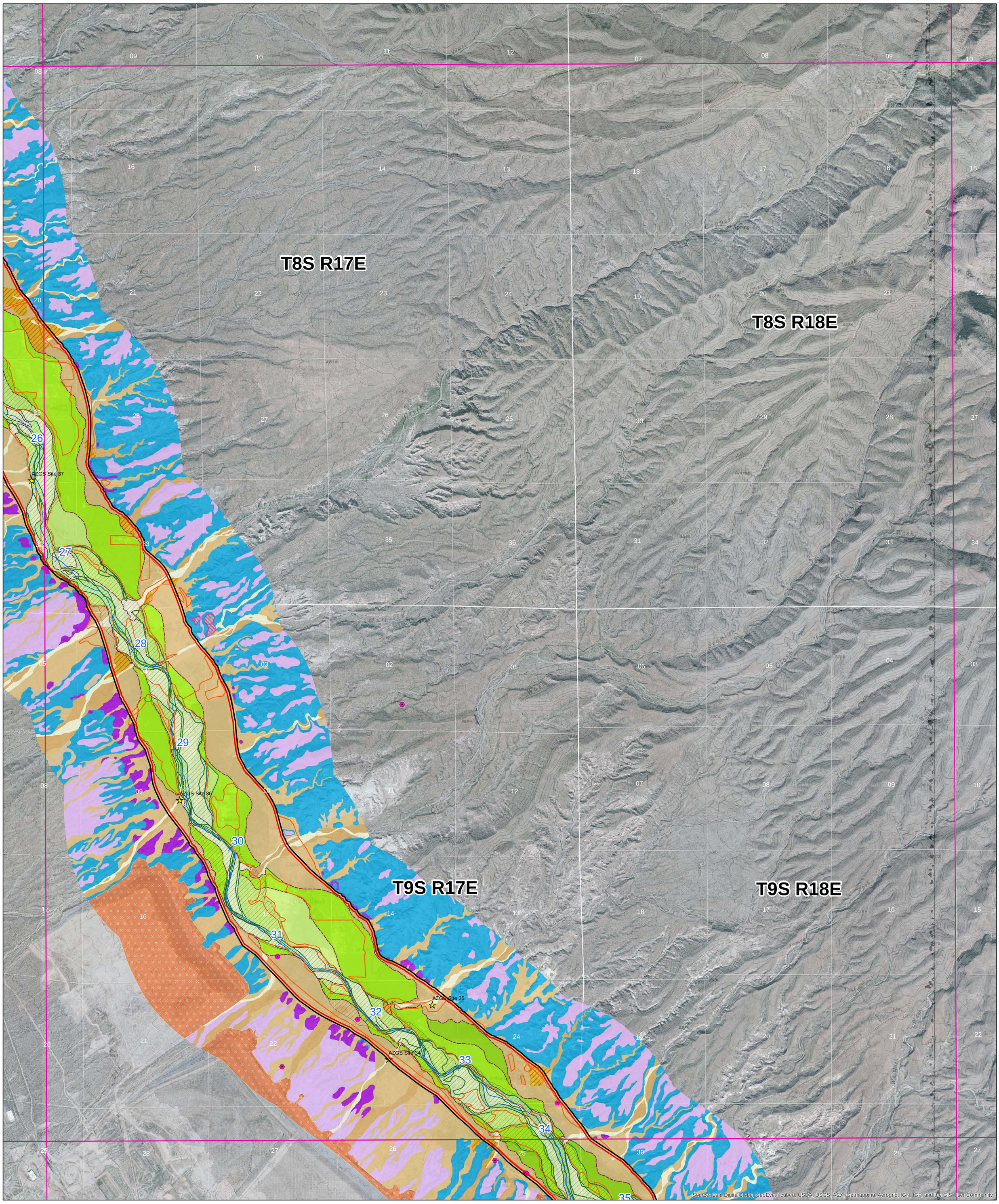


Workmap Series with Imagery and Topography

USGS Topo Quad: Peppersauce Wash

Map 18 of 33

Revised Subflow Zone Delineation Report
April 2014



Legend

- AZGS Sites

Well Logs
- Professional Log
- Driller's Log

Water Level Analysis
- GWSI well in Holocene
- River Centerline
- Perpendicular to River Centerline

USFW Riparian
- Cottonwood-Willow
- Mesquite-Salt Cedar

Tributary Drainages
- Major Basins (>50 sqmi)
- Washes

- FHA Extent
- Subflow Zone

Holocene River Alluvium
- Active river channel deposits
- Flood channel & low terrace deposits
- Historical river terrace deposits
- Latest Holocene to historical river terrace deposits
- Late to early Holocene river terrace deposits

Holocene Tributary Stream Alluvium
- Modern stream channel deposits
- Latest Holocene Alluvium
- Late Holocene alluvium
- Older Holocene alluvium

Holocene Piedmont Alluvium
- Historic Composite Active Floodplain

Pleistocene River Alluvium
- Late Pleistocene river terrace deposits
- Middle to late Plesitocene river terrace deposits
- Early to middle Pleistocene river terrace deposits
- Pleistocene river deposits
- Early Pleistocene river channel alluvium
- Quaternary hillslope talus & colluvium

Pleistocene Piedmont Alluvium

Pleistocene Alluvium

Tertiary Piedmont Alluvium

Tertiary Basin Fill Allivuium

Bedrock Units

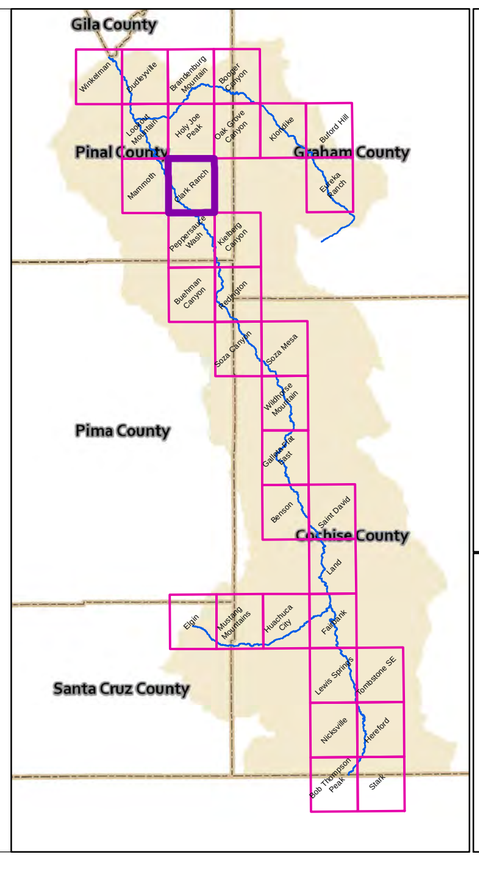
Disturbed Lands
- Disturbed
- Ditch
- Mining related

Basemap: ESRI World Imagery with Topography

1:24,000

0 1 2 Miles

N

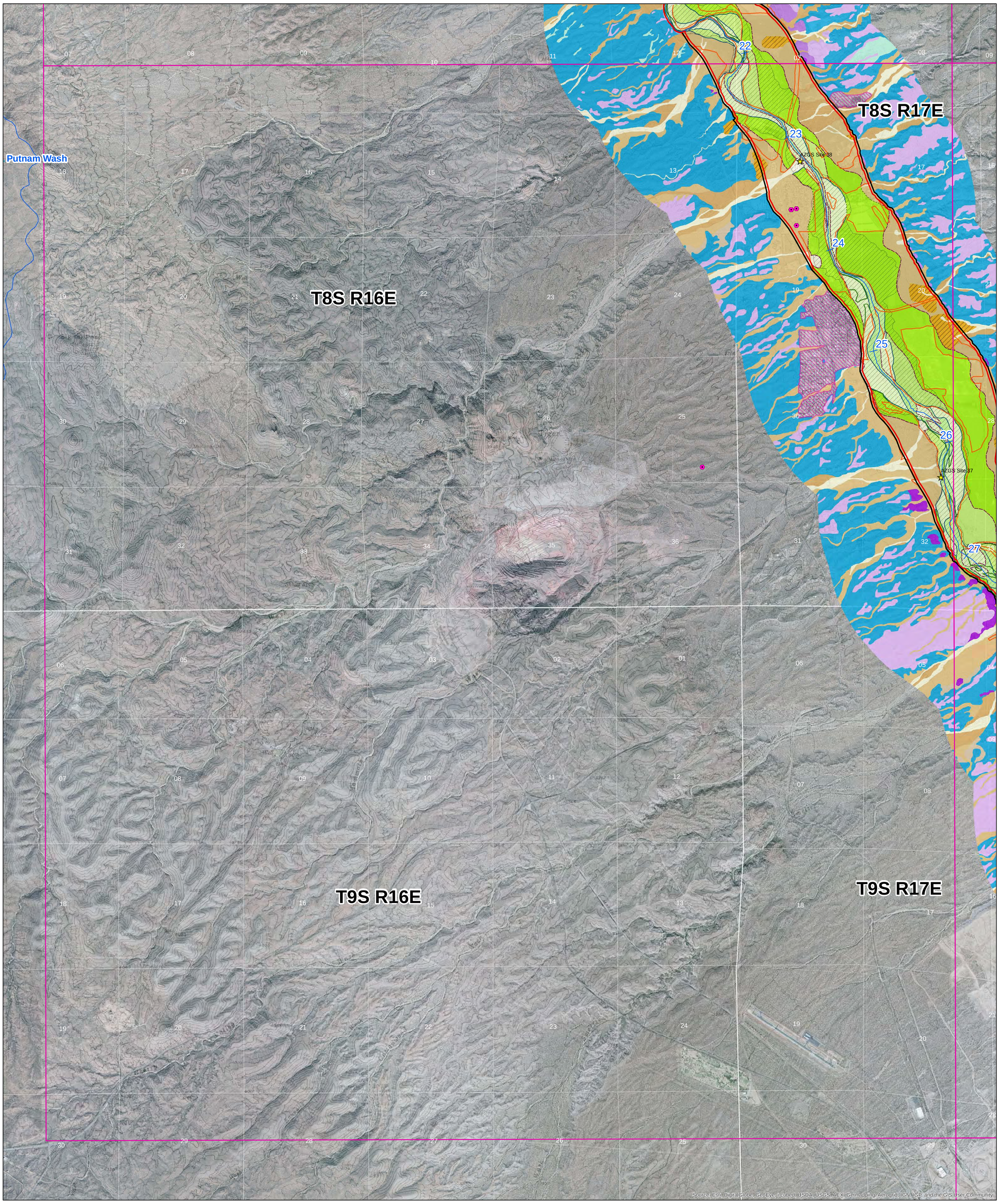


Workmap Series with Imagery and Topography

USGS Topo Quad: Clark Ranch

Map 19 of 33

Revised Subflow Zone Delineation Report
April 2014



Legend

AZGS Sites

Well Logs
- Professional Log
- Driller's Log

Water Level Analysis
- GWSI well in Holocene
- River Centerline
- Perpendicular to River Centerline

USFW Riparian
- Cottonwood-Willow
- Mesquite-Salt Cedar

Tributary Drainages
- Major Basins (>50 sqmi)
- Washes

FHA Extent

Subflow Zone

Holocene River Alluvium
- Active river channel deposits
- Flood channel & low terrace deposits
- Historical river terrace deposits
- Latest Holocene to historical river terrace deposits
- Late to early Holocene river terrace deposits

Holocene Tributary Stream Alluvium
- Modern stream channel deposits
- Latest Holocene Alluvium
- Late Holocene alluvium
- Older Holocene alluvium

Holocene Piedmont Alluvium

Historic Composite Active Floodplain

Pleistocene River Alluvium
- Late Pleistocene river terrace deposits
- Middle to late Plesitocene river terrace deposits
- Early to middle Pleistocene river terrace deposits
- Pleistocene river deposits
- Early Pleistocene river channel alluvium
- Quaternary hillslope talus & colluvium

Pleistocene Piedmont Alluvium

Pleistocene Alluvium

Tertiary Piedmont Alluvium

Tertiary Basin Fill Allivuium

Bedrock Units

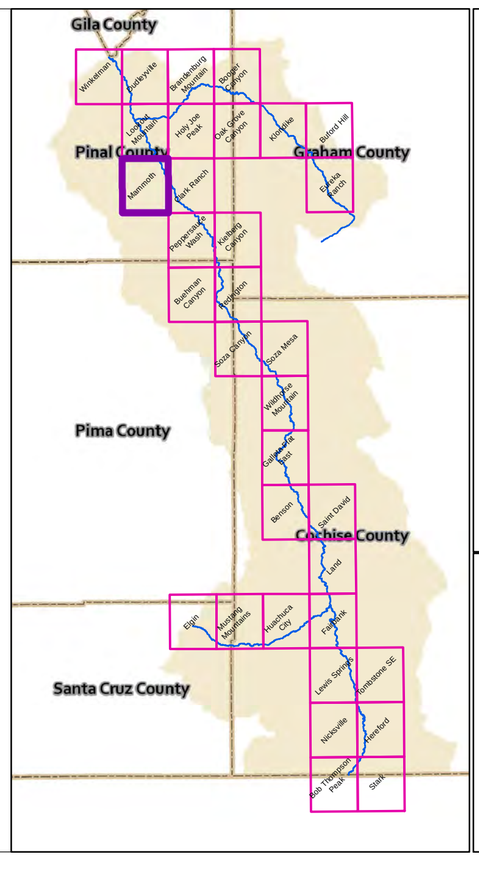
Disturbed Lands
- Disturbed
- Ditch
- Mining related

1:24,000

0 1 2 Miles

N

Basemap: ESRI World Imagery with Topography

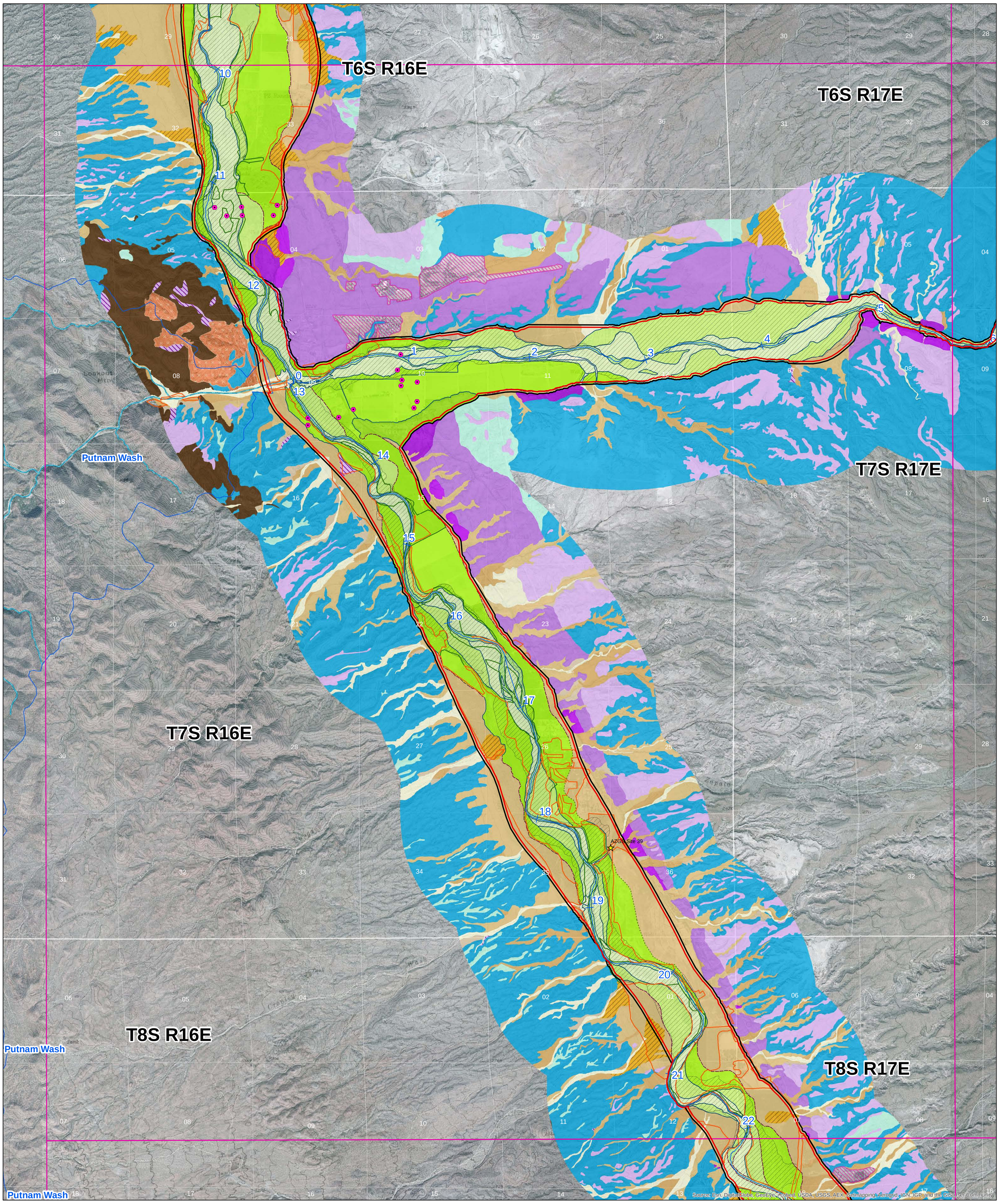


Workmap Series with Imagery and Topography

USGS Topo Quad: Mammoth

Map 20 of 33

Revised Subflow Zone Delineation Report
April 2014



Legend

- AZGS Sites

Well Logs
- Professional Log
- Driller's Log

Water Level Analysis
- GWSI well in Holocene
- River Centerline
- Perpendicular to River Centerline

USFW Riparian
- Cottonwood-Willow
- Mesquite-Salt Cedar

Tributary Drainages
- Major Basins (>50 sqmi)
- Washes

- FHA Extent
- Subflow Zone

Holocene River Alluvium
- Active river channel deposits
- Flood channel & low terrace deposits
- Historical river terrace deposits
- Latest Holocene to historical river terrace deposits
- Late to early Holocene river terrace deposits

Holocene Tributary Stream Alluvium
- Modern stream channel deposits
- Latest Holocene Alluvium
- Late Holocene alluvium
- Older Holocene alluvium

Holocene Piedmont Alluvium
- Historic Composite Active Floodplain

Pleistocene River Alluvium
- Late Pleistocene river terrace deposits
- Middle to late Plesitocene river terrace deposits
- Early to middle Pleistocene river terrace deposits
- Pleistocene river deposits
- Early Pleistocene river channel alluvium
- Quaternary hillslope talus & colluvium

Pleistocene Piedmont Alluvium

Pleistocene Alluvium

Tertiary Piedmont Alluvium

Tertiary Basin Fill Allivuium

Bedrock Units

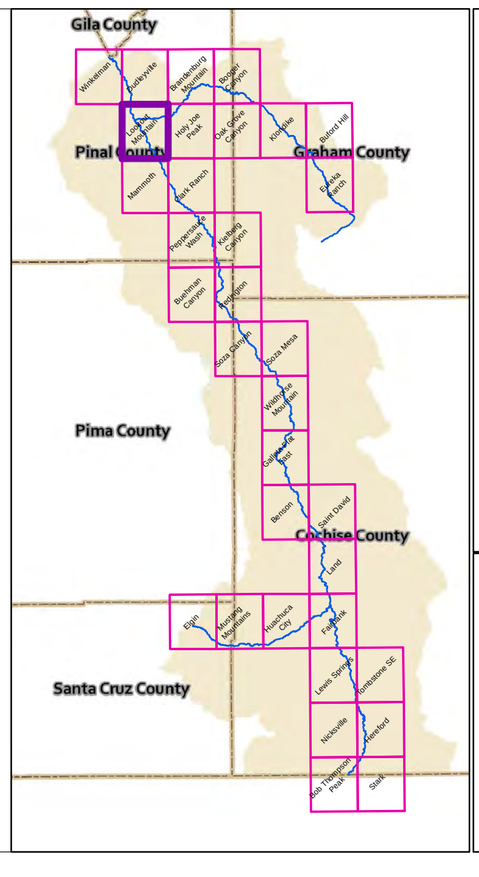
Disturbed Lands
- Disturbed
- Ditch
- Mining related

1:24,000

0 1 2 Miles

N

Basemap: ESRI World Imagery with Topography

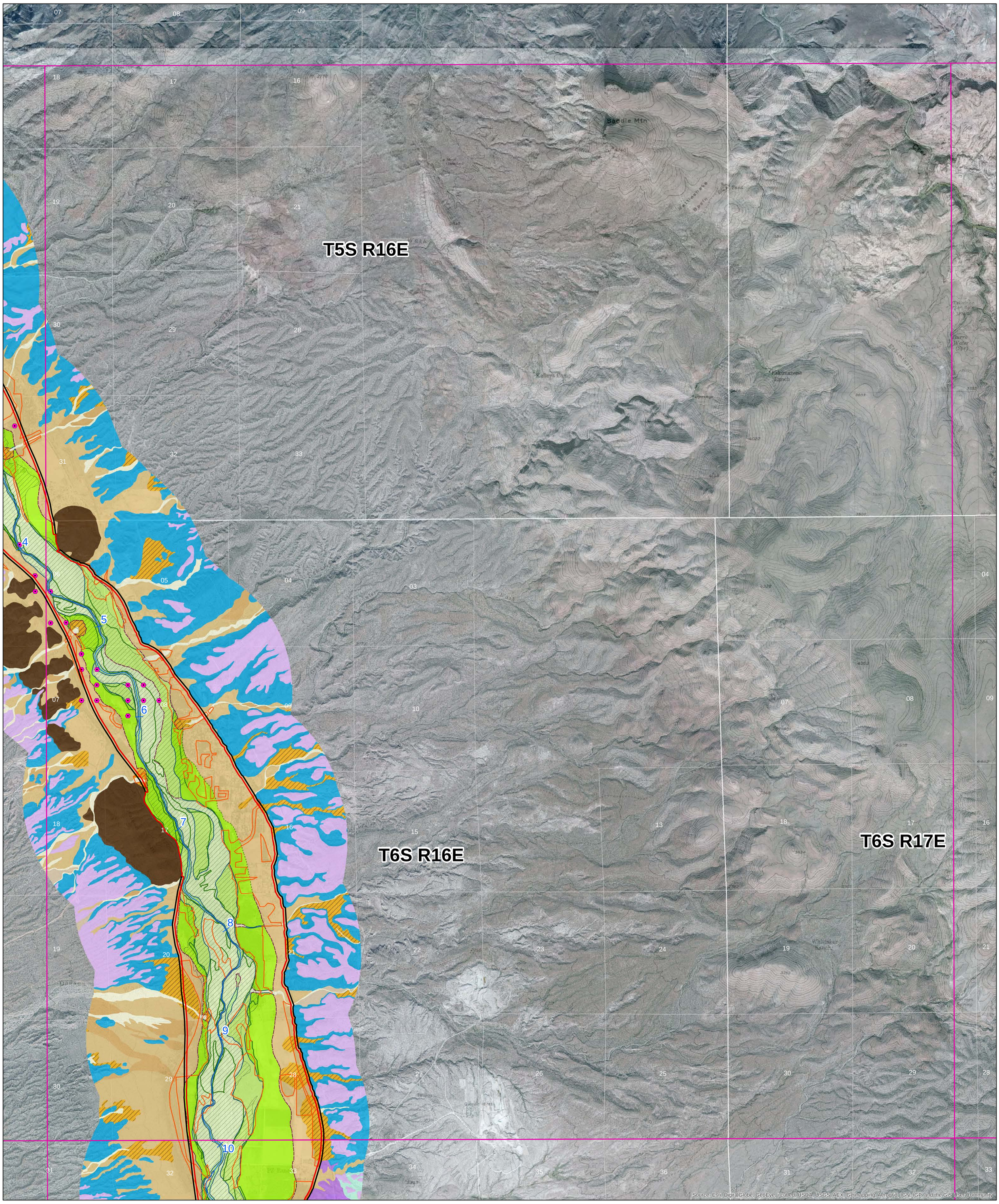


Workmap Series with Imagery and Topography

USGS Topo Quad: Lookout Mountain

Map 21 of 33

Revised Subflow Zone Delineation Report
April 2014



Legend

- AZGS Sites

Well Logs
- Professional Log
- Driller's Log

Water Level Analysis
- GWSI well in Holocene
- River Centerline
- Perpendicular to River Centerline

USFW Riparian
- Cottonwood-Willow
- Mesquite-Salt Cedar

Tributary Drainages
- Major Basins (>50 sqmi)
- Washes

- FHA Extent
- Subflow Zone

Holocene River Alluvium
- Active river channel deposits
- Flood channel & low terrace deposits
- Historical river terrace deposits
- Latest Holocene to historical river terrace deposits
- Late to early Holocene river terrace deposits

Holocene Tributary Stream Alluvium
- Modern stream channel deposits
- Latest Holocene Alluvium
- Late Holocene alluvium
- Older Holocene alluvium

Holocene Piedmont Alluvium
- Historic Composite Active Floodplain

Pleistocene River Alluvium
- Late Pleistocene river terrace deposits
- Middle to late Plesitocene river terrace deposits
- Early to middle Pleistocene river terrace deposits
- Pleistocene river deposits
- Early Pleistocene river channel alluvium
- Quaternary hillslope talus & colluvium

Pleistocene Piedmont Alluvium

Pleistocene Alluvium

Tertiary Piedmont Alluvium

Tertiary Basin Fill Allivuium

Bedrock Units

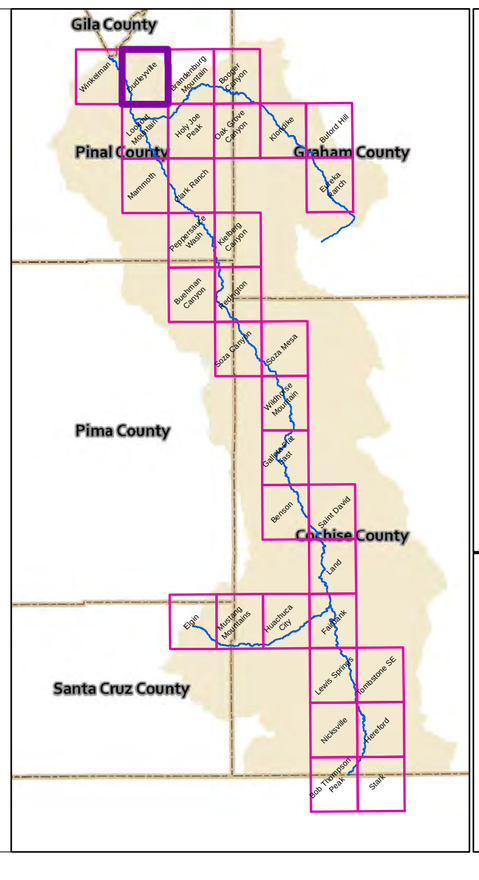
Disturbed Lands
- Disturbed
- Ditch
- Mining related

Basemap: ESRI World Imagery with Topography

1:24,000

0 1 2 Miles

N

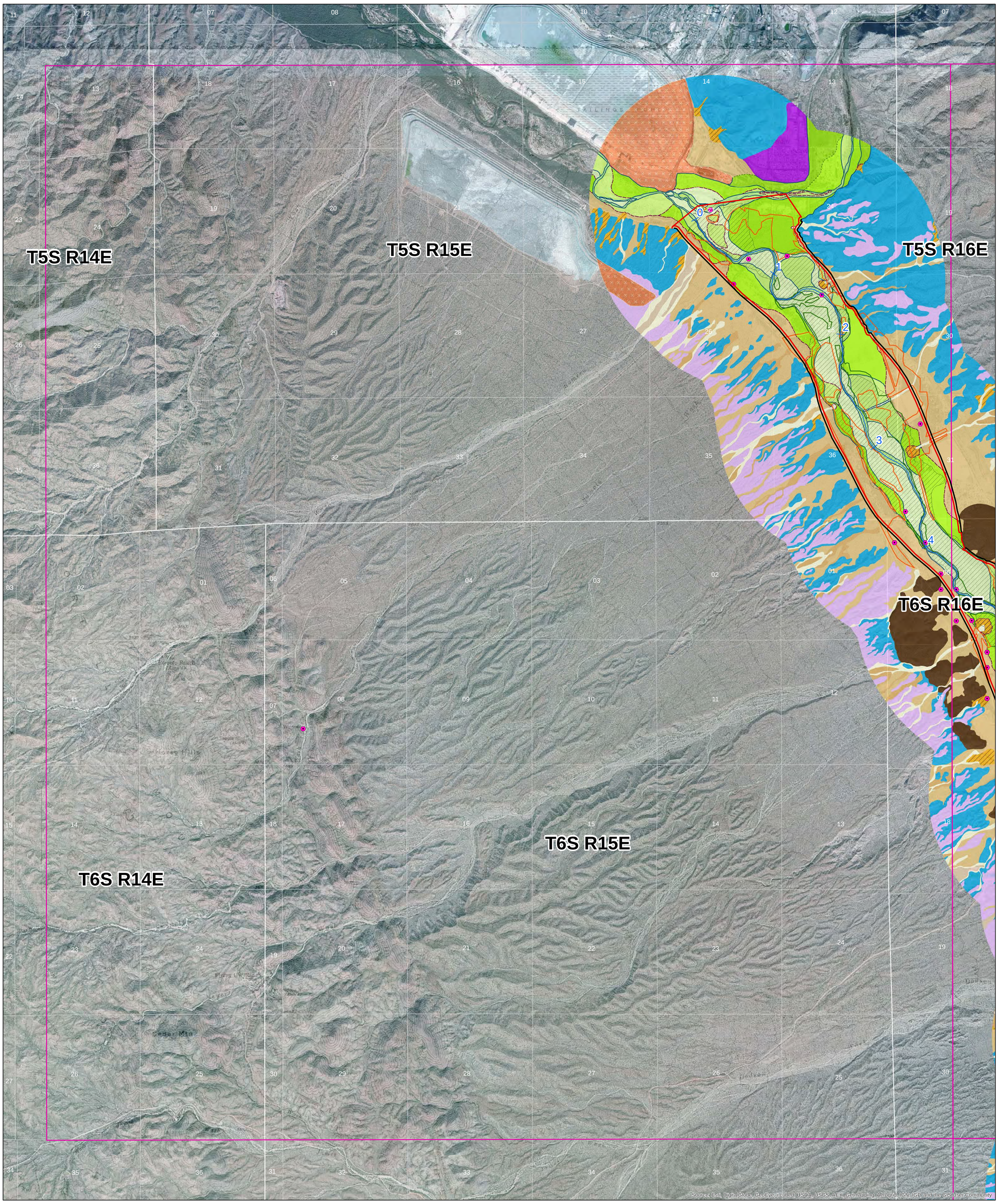


Workmap Series with Imagery and Topography

USGS Topo Quad: Dudleyville

Map 22 of 33

Revised Subflow Zone Delineation Report
April 2014



Legend

AZGS Sites

Well Logs
- Professional Log
- Driller's Log

Water Level Analysis
- GWSI well in Holocene
- River Centerline
- Perpendicular to River Centerline

USFW Riparian
- Cottonwood-Willow
- Mesquite-Salt Cedar

Tributary Drainages
- Major Basins (>50 sqmi)
- Washes

FHA Extent

Subflow Zone

Holocene River Alluvium
- Active river channel deposits
- Flood channel & low terrace deposits
- Historical river terrace deposits
- Latest Holocene to historical river terrace deposits
- Late to early Holocene river terrace deposits

Holocene Tributary Stream Alluvium
- Modern stream channel deposits
- Latest Holocene Alluvium
- Late Holocene alluvium
- Older Holocene alluvium

Holocene Piedmont Alluvium

Historic Composite Active Floodplain

Pleistocene River Alluvium
- Late Pleistocene river terrace deposits
- Middle to late Plesitocene river terrace deposits
- Early to middle Pleistocene river terrace deposits
- Pleistocene river deposits
- Early Pleistocene river channel alluvium
- Quaternary hillslope talus & colluvium

Pleistocene Piedmont Alluvium

Pleistocene Alluvium

Tertiary Piedmont Alluvium

Tertiary Basin Fill Allivuium

Bedrock Units

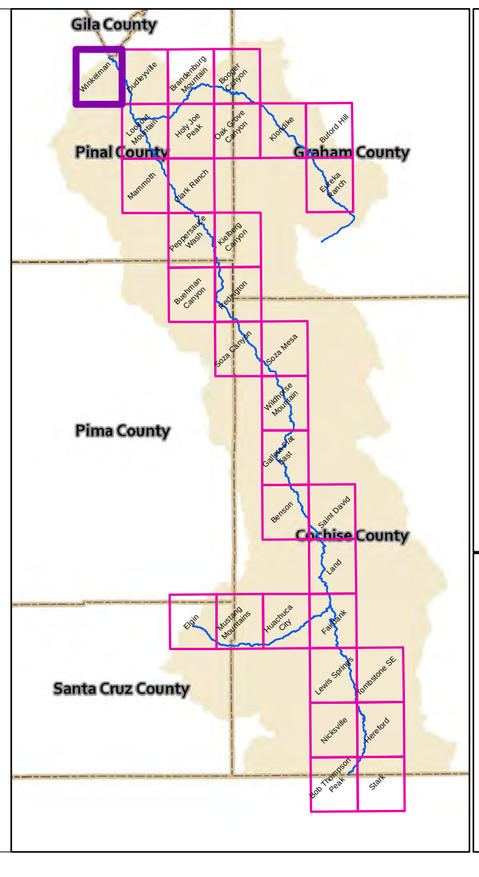
Disturbed Lands
- Disturbed
- Ditch
- Mining related

1:24,000

0 1 2 Miles

N

Basemap: ESRI World Imagery with Topography

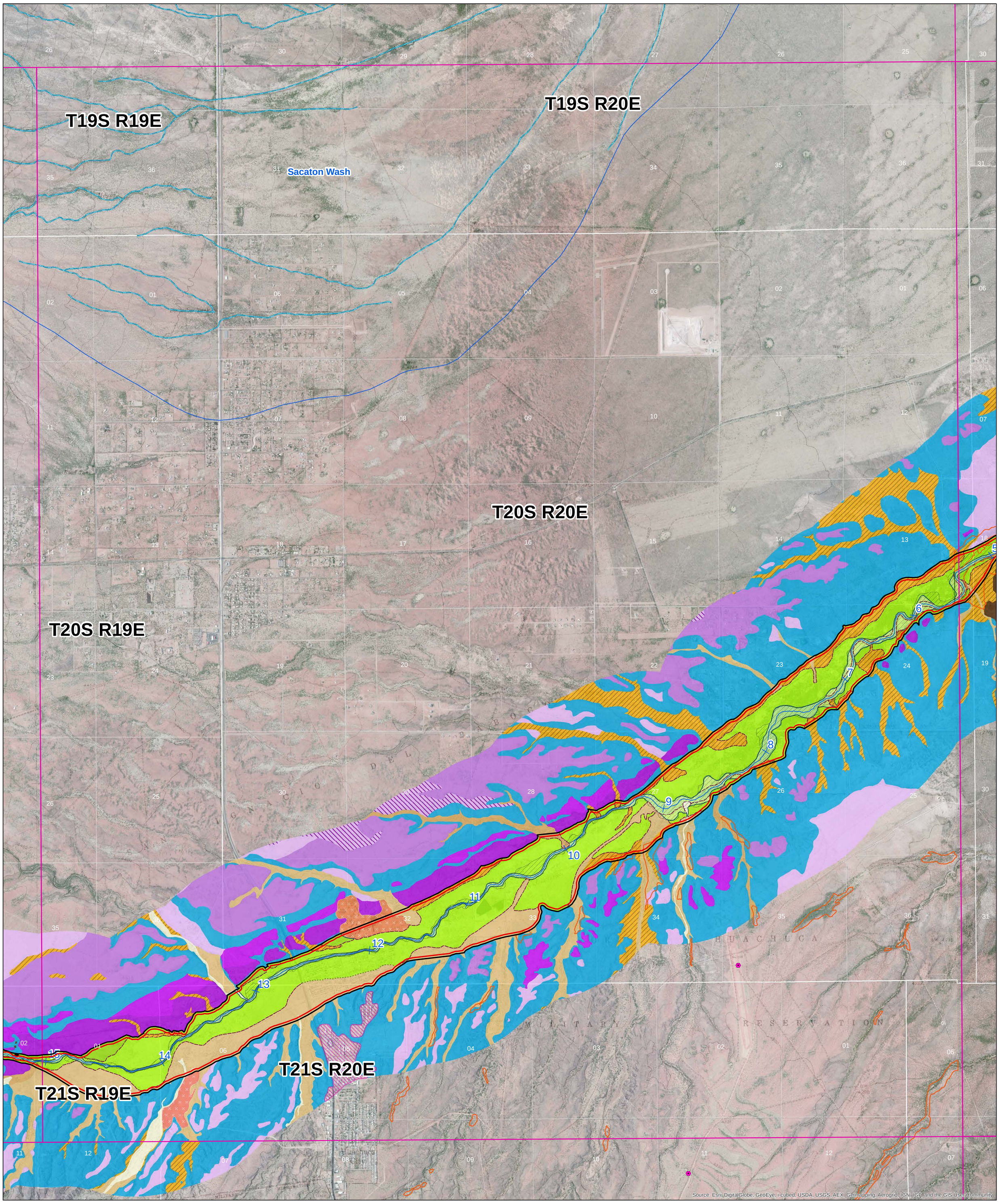


Workmap Series with Imagery and Topography

USGS Topo Quad: Winkelman

Map 23 of 33

Revised Subflow Zone Delineation Report
April 2014



Legend

- AZGS Sites

Well Logs
- Professional Log
- Driller's Log

Water Level Analysis
- GWSI well in Holocene
- River Centerline
- Perpendicular to River Centerline

USFW Riparian
- Cottonwood-Willow
- Mesquite-Salt Cedar

Tributary Drainages
- Major Basins (>50 sqmi)
- Washes

- FHA Extent
- Subflow Zone

Holocene River Alluvium
- Active river channel deposits
- Flood channel & low terrace deposits
- Historical river terrace deposits
- Latest Holocene to historical river terrace deposits
- Late to early Holocene river terrace deposits

Holocene Tributary Stream Alluvium
- Modern stream channel deposits
- Latest Holocene Alluvium
- Late Holocene alluvium
- Older Holocene alluvium

Holocene Piedmont Alluvium
- Historic Composite Active Floodplain

Pleistocene River Alluvium
- Late Pleistocene river terrace deposits
- Middle to late Plesitocene river terrace deposits
- Early to middle Pleistocene river terrace deposits
- Pleistocene river deposits
- Early Pleistocene river channel alluvium
- Quaternary hillslope talus & colluvium

Pleistocene Piedmont Alluvium

Pleistocene Alluvium

Tertiary Piedmont Alluvium

Tertiary Basin Fill Allivuium

Bedrock Units

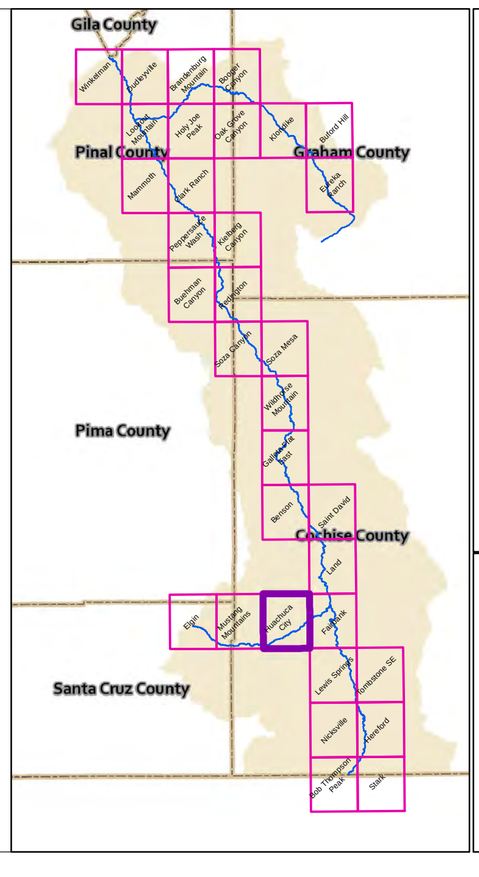
Disturbed Lands
- Disturbed
- Ditch
- Mining related

Basemap: ESRI World Imagery with Topography

1:24,000

0 1 2 Miles

N

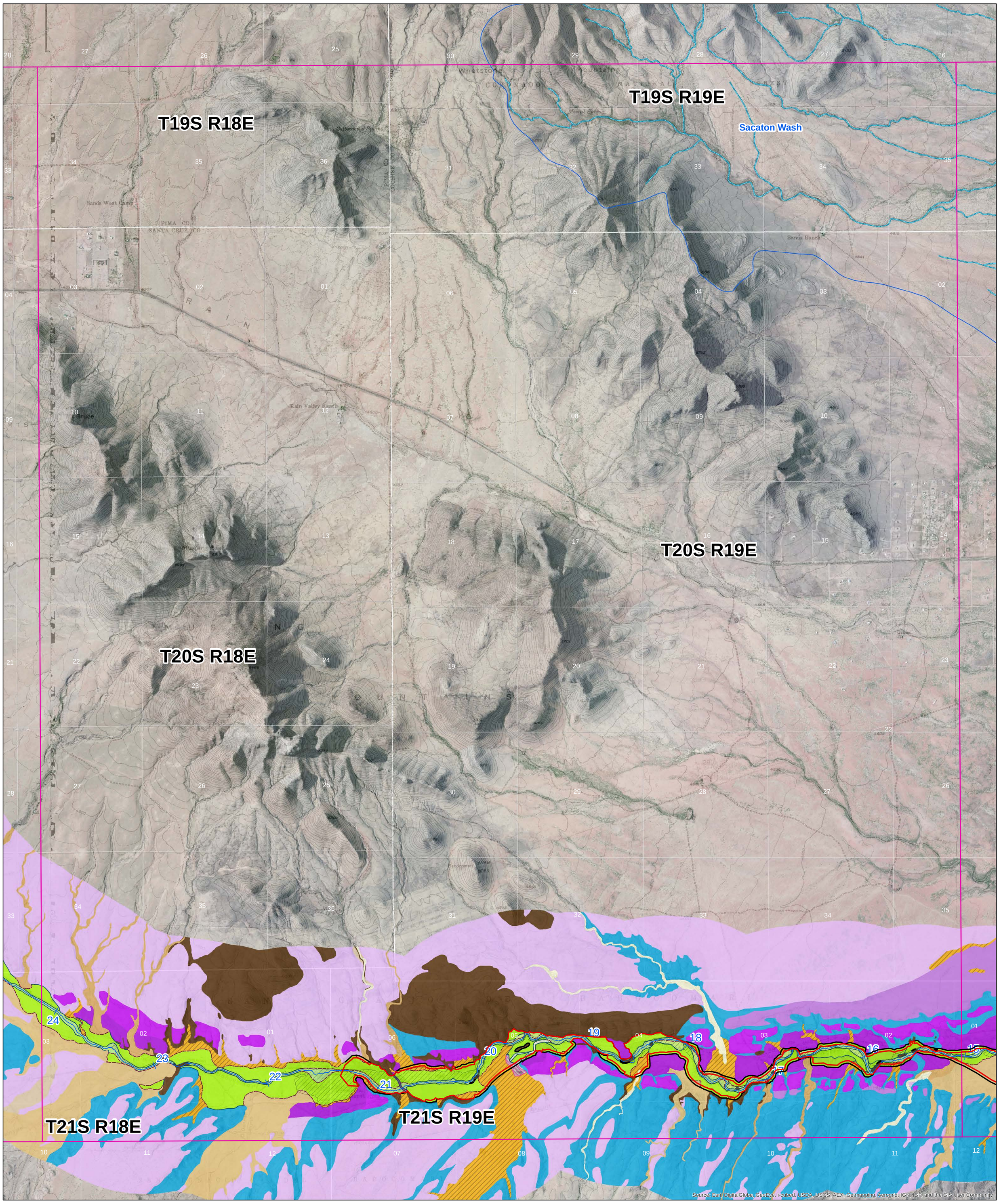


Workmap Series with Imagery and Topography

USGS Topo Quad: Huachuca City

Map 24 of 33

Revised Subflow Zone Delineation Report
April 2014



Legend

- AZGS Sites

Well Logs
- Professional Log
- Driller's Log

Water Level Analysis
- GWSI well in Holocene
- River Centerline
- Perpendicular to River Centerline

USFW Riparian
- Cottonwood-Willow
- Mesquite-Salt Cedar

Tributary Drainages
- Major Basins (>50 sqmi)
- Washes

- FHA Extent
- Subflow Zone

Holocene River Alluvium
- Active river channel deposits
- Flood channel & low terrace deposits
- Historical river terrace deposits
- Latest Holocene to historical river terrace deposits
- Late to early Holocene river terrace deposits

Holocene Tributary Stream Alluvium
- Modern stream channel deposits
- Latest Holocene Alluvium
- Late Holocene alluvium
- Older Holocene alluvium

Holocene Piedmont Alluvium
- Historic Composite Active Floodplain

Pleistocene River Alluvium
- Late Pleistocene river terrace deposits
- Middle to late Plesitocene river terrace deposits
- Early to middle Pleistocene river terrace deposits
- Pleistocene river deposits
- Early Pleistocene river channel alluvium
- Quaternary hillslope talus & colluvium

Pleistocene Piedmont Alluvium

Pleistocene Alluvium

Tertiary Piedmont Alluvium

Tertiary Basin Fill Allivuium

Bedrock Units

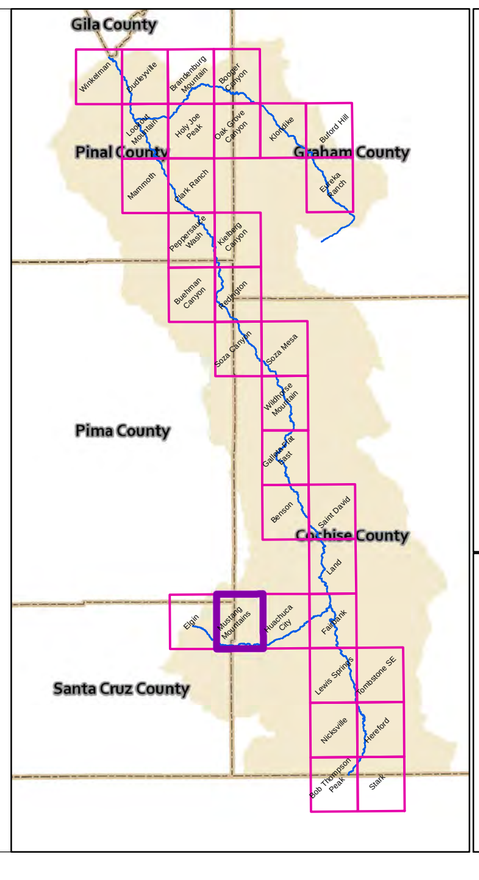
Disturbed Lands
- Disturbed
- Ditch
- Mining related

Basemap: ESRI World Imagery with Topography

1:24,000

0 1 2 Miles

N

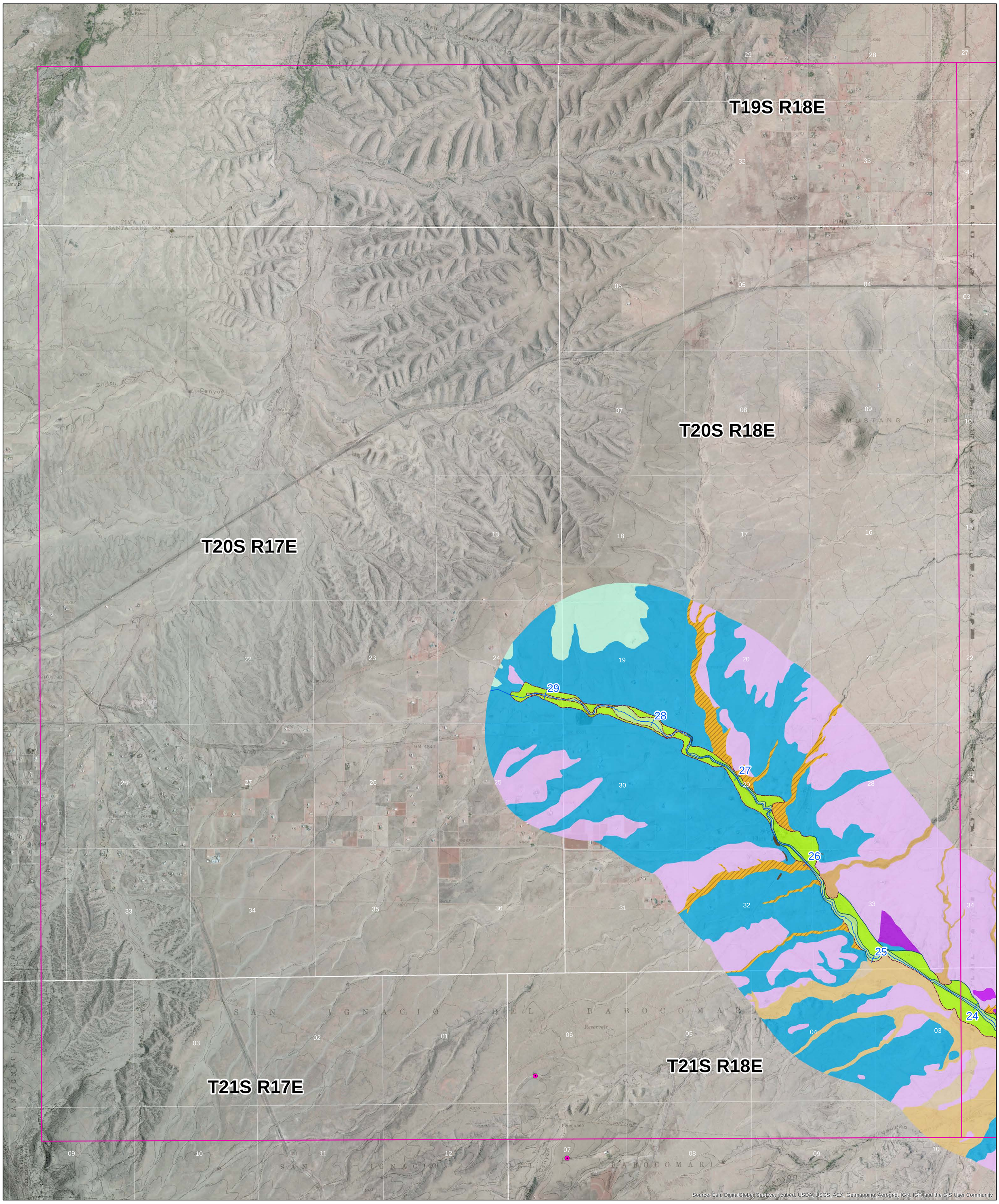


Workmap Series with Imagery and Topography

USGS Topo Quad: Mustang Mountains

Map 25 of 33

Revised Subflow Zone Delineation Report
April 2014



Legend

- AZGS Sites

Well Logs
- Professional Log
- Driller's Log

Water Level Analysis
- GWSI well in Holocene
- River Centerline
- Perpendicular to River Centerline

USFW Riparian
- Cottonwood-Willow
- Mesquite-Salt Cedar

Tributary Drainages
- Major Basins (>50 sqmi)
- Washes

- FHA Extent
- Subflow Zone

Holocene River Alluvium
- Active river channel deposits
- Flood channel & low terrace deposits
- Historical river terrace deposits
- Latest Holocene to historical river terrace deposits
- Late to early Holocene river terrace deposits

Holocene Tributary Stream Alluvium
- Modern stream channel deposits
- Latest Holocene Alluvium
- Late Holocene alluvium
- Older Holocene alluvium

Holocene Piedmont Alluvium
- Historic Composite Active Floodplain

Pleistocene River Alluvium
- Late Pleistocene river terrace deposits
- Middle to late Plesitocene river terrace deposits
- Early to middle Pleistocene river terrace deposits
- Pleistocene river deposits
- Early Pleistocene river channel alluvium
- Quaternary hillslope talus & colluvium

Pleistocene Piedmont Alluvium

Pleistocene Alluvium

Tertiary Piedmont Alluvium

Tertiary Basin Fill Allivuium

Bedrock Units

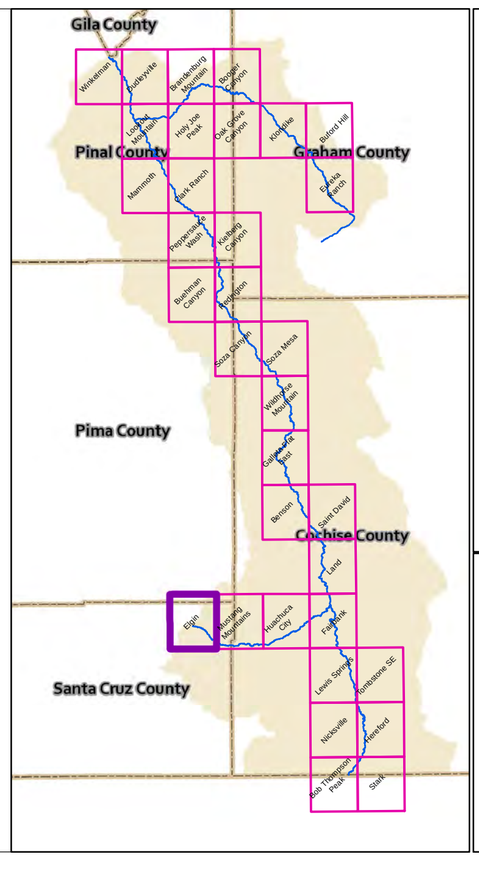
Disturbed Lands
- Disturbed
- Ditch
- Mining related

1:24,000

0 1 2 Miles

N

Basemap: ESRI World Imagery with Topography

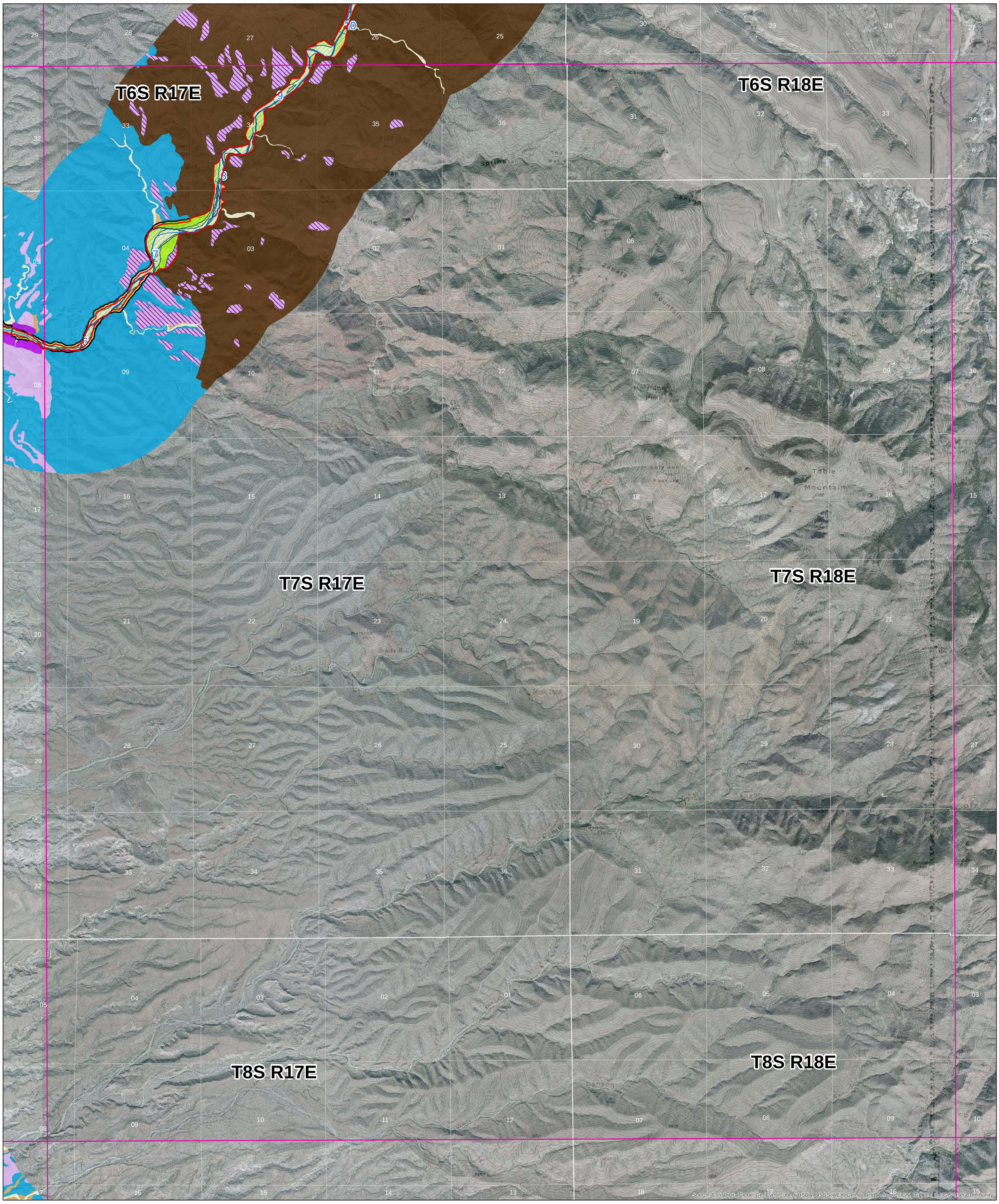


Workmap Series with Imagery and Topography

USGS Topo Quad: Elgin

Map 26 of 33

Revised Subflow Zone Delineation Report
April 2014



Legend

AZGS Sites

Well Logs
- Professional Log
- Driller's Log

Water Level Analysis
- GWSI well in Holocene
- River Centerline
- Perpendicular to River Centerline

USFW Riparian
- Cottonwood-Willow
- Mesquite-Salt Cedar

Tributary Drainages
- Major Basins (>50 sqmi)
- Washes

FHA Extent

Subflow Zone

Holocene River Alluvium
- Active river channel deposits
- Flood channel & low terrace deposits
- Historical river terrace deposits
- Latest Holocene to historical river terrace deposits
- Late to early Holocene river terrace deposits

Holocene Tributary Stream Alluvium
- Modern stream channel deposits
- Latest Holocene Alluvium
- Late Holocene alluvium
- Older Holocene alluvium

Holocene Piedmont Alluvium

Historic Composite Active Floodplain

Pleistocene River Alluvium
- Late Pleistocene river terrace deposits
- Middle to late Plesitocene river terrace deposits
- Early to middle Pleistocene river terrace deposits
- Pleistocene river deposits
- Early Pleistocene river channel alluvium
- Quaternary hillslope talus & colluvium

Pleistocene Piedmont Alluvium

Pleistocene Alluvium

Tertiary Piedmont Alluvium

Tertiary Basin Fill Allivuium

Bedrock Units

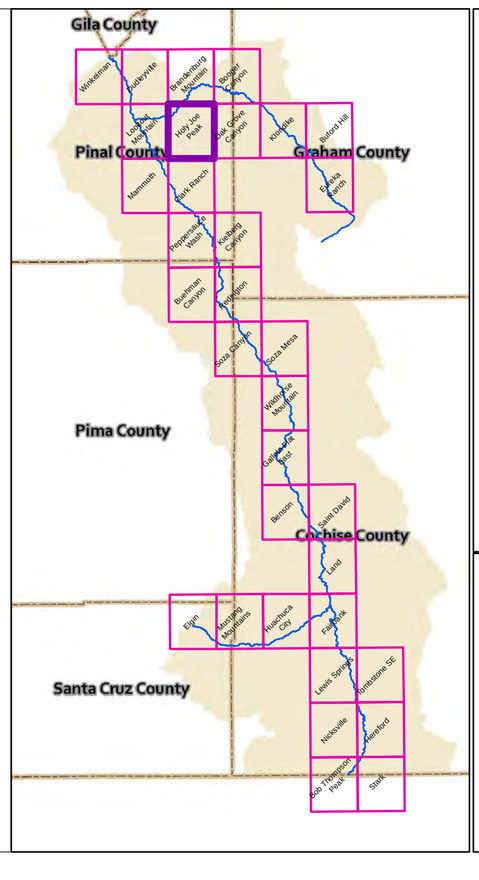
Disturbed Lands
- Disturbed
- Ditch
- Mining related

1:24,000

0 1 2 Miles

N

Basemap: ESRI World Imagery with Topography

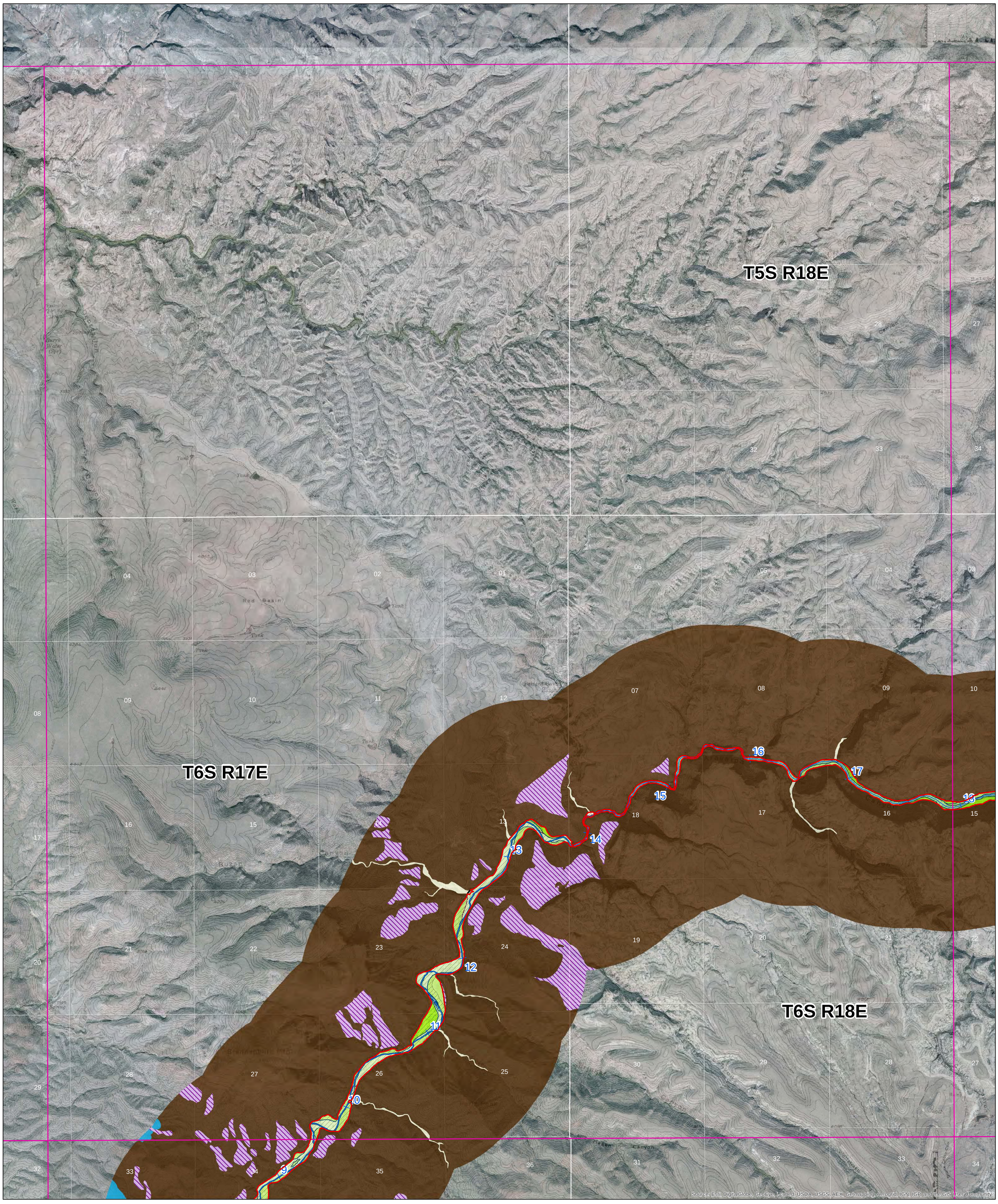


Workmap Series with Imagery and Topography

USGS Topo Quad: Holy Joe Peak

Map 27 of 33

Revised Subflow Zone Delineation Report
April 2014



Legend

- AZGS Sites

Well Logs
- Professional Log
- Driller's Log

Water Level Analysis
- GWSI well in Holocene
- River Centerline
- Perpendicular to River Centerline

USFW Riparian
- Cottonwood-Willow
- Mesquite-Salt Cedar

Tributary Drainages
- Major Basins (>50 sqmi)
- Washes

- FHA Extent
- Subflow Zone

Holocene River Alluvium
- Active river channel deposits
- Flood channel & low terrace deposits
- Historical river terrace deposits
- Latest Holocene to historical river terrace deposits
- Late to early Holocene river terrace deposits

Holocene Tributary Stream Alluvium
- Modern stream channel deposits
- Latest Holocene Alluvium
- Late Holocene alluvium
- Older Holocene alluvium

Holocene Piedmont Alluvium
- Historic Composite Active Floodplain

Pleistocene River Alluvium
- Late Pleistocene river terrace deposits
- Middle to late Plesitocene river terrace deposits
- Early to middle Pleistocene river terrace deposits
- Pleistocene river deposits
- Early Pleistocene river channel alluvium
- Quaternary hillslope talus & colluvium

Pleistocene Piedmont Alluvium

Pleistocene Alluvium

Tertiary Piedmont Alluvium

Tertiary Basin Fill Allivuium

Bedrock Units

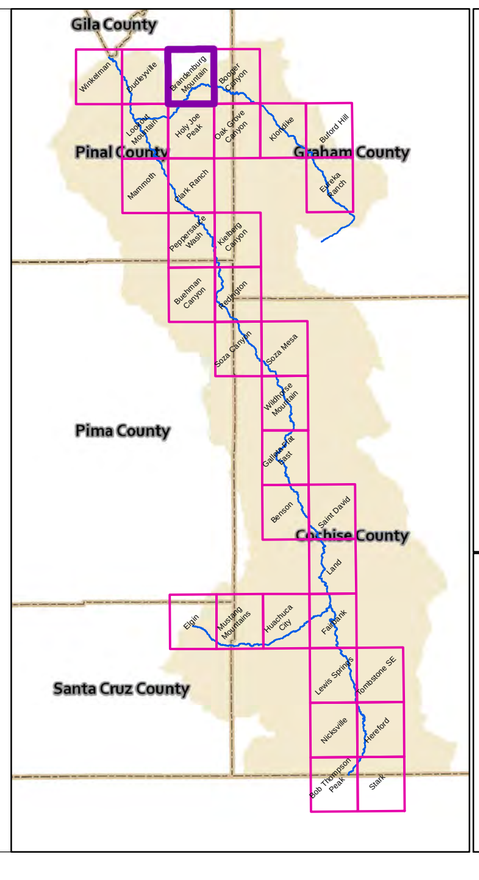
Disturbed Lands
- Disturbed
- Ditch
- Mining related

Basemap: ESRI World Imagery with Topography

1:24,000

0 1 2 Miles

N



Workmap Series with Imagery and Topography

USGS Topo Quad: Brandenburg Mountain

Map 28 of 33

Revised Subflow Zone Delineation Report
April 2014

Legend

- AZGS Sites

Well Logs
- Professional Log
- Driller's Log

Water Level Analysis
- GWSI well in Holocene
- River Centerline
- Perpendicular to River Centerline

USFW Riparian
- Cottonwood-Willow
- Mesquite-Salt Cedar

Tributary Drainages
- Major Basins (>50 sqmi)
- Washes

- FHA Extent
- Subflow Zone

Holocene River Alluvium
- Active river channel deposits
- Flood channel & low terrace deposits
- Historical river terrace deposits
- Latest Holocene to historical river terrace deposits
- Late to early Holocene river terrace deposits

Holocene Tributary Stream Alluvium
- Modern stream channel deposits
- Latest Holocene Alluvium
- Late Holocene alluvium
- Older Holocene alluvium

Holocene Piedmont Alluvium
- Historic Composite Active Floodplain

Pleistocene River Alluvium
- Late Pleistocene river terrace deposits
- Middle to late Plesitocene river terrace deposits
- Early to middle Pleistocene river terrace deposits
- Pleistocene river deposits
- Early Pleistocene river channel alluvium
- Quaternary hillslope talus & colluvium

Pleistocene Piedmont Alluvium

Pleistocene Alluvium

Tertiary Piedmont Alluvium

Tertiary Basin Fill Allivuium

Bedrock Units

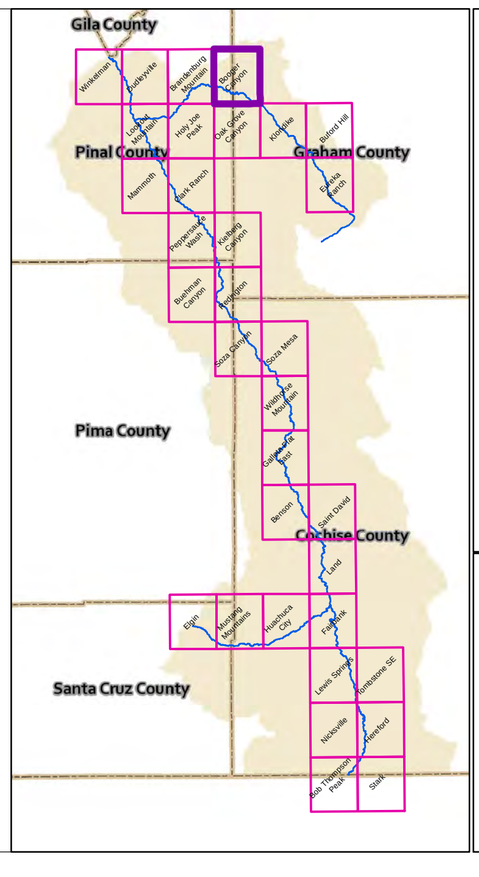
Disturbed Lands
- Disturbed
- Ditch
- Mining related

Basemap: ESRI World Imagery with Topography

1:24,000

0 1 2 Miles

N

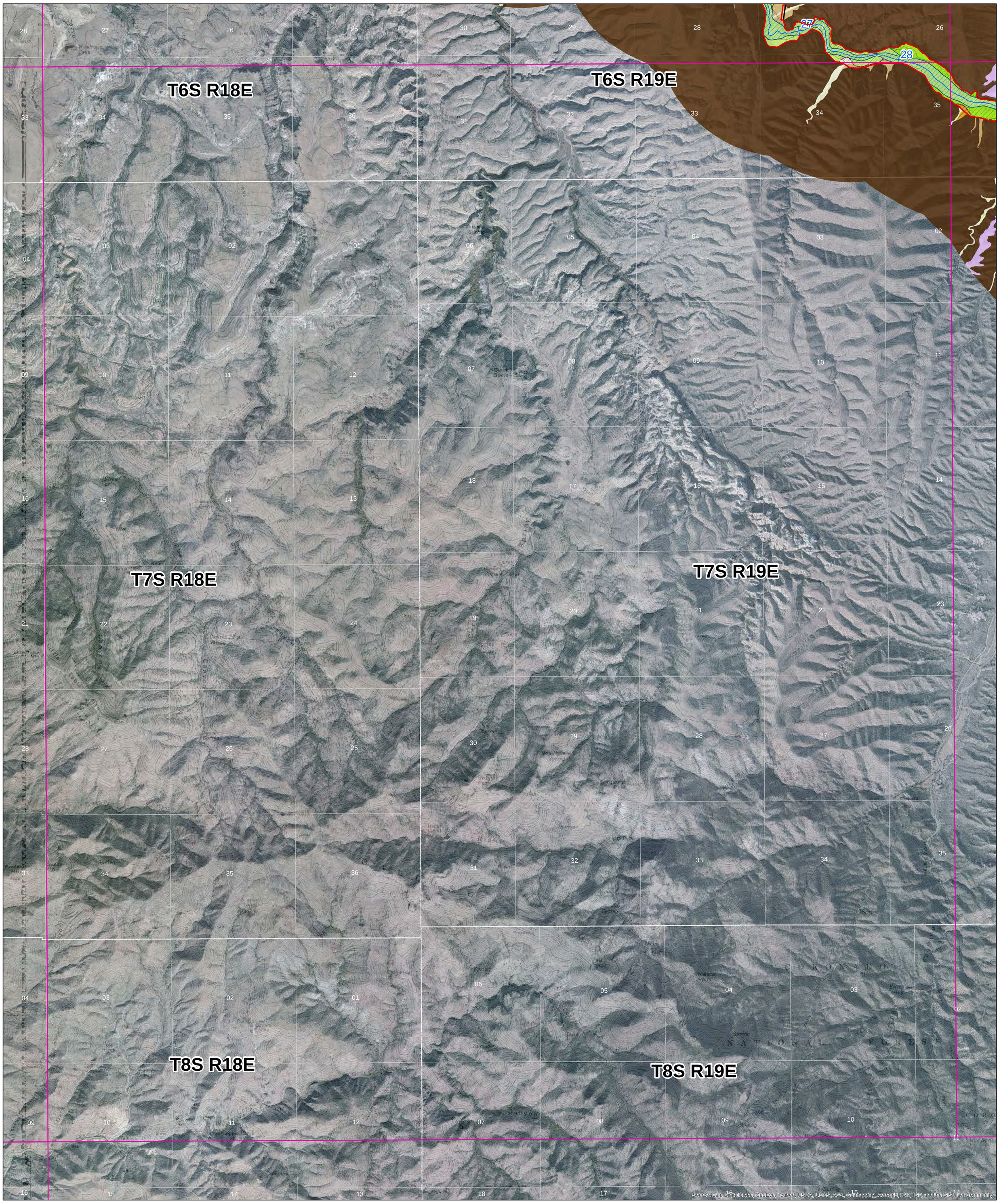


Workmap Series with Imagery and Topography

USGS Topo Quad: Booger Canyon

Map 29 of 33

Revised Subflow Zone Delineation Report
April 2014



Legend

- AZGS Sites

Well Logs
- Professional Log
- Driller's Log

Water Level Analysis
- GWSI well in Holocene
- River Centerline
- Perpendicular to River Centerline

USFW Riparian
- Cottonwood-Willow
- Mesquite-Salt Cedar

Tributary Drainages
- Major Basins (>50 sqmi)
- Washes

- FHA Extent
- Subflow Zone

Holocene River Alluvium
- Active river channel deposits
- Flood channel & low terrace deposits
- Historical river terrace deposits
- Latest Holocene to historical river terrace deposits
- Late to early Holocene river terrace deposits

Holocene Tributary Stream Alluvium
- Modern stream channel deposits
- Latest Holocene Alluvium
- Late Holocene alluvium
- Older Holocene alluvium

Holocene Piedmont Alluvium
- Historic Composite Active Floodplain

Pleistocene River Alluvium
- Late Pleistocene river terrace deposits
- Middle to late Plesitocene river terrace deposits
- Early to middle Pleistocene river terrace deposits
- Pleistocene river deposits
- Early Pleistocene river channel alluvium
- Quaternary hillslope talus & colluvium

Pleistocene Piedmont Alluvium

Pleistocene Alluvium

Tertiary Piedmont Alluvium

Tertiary Basin Fill Allivuium

Bedrock Units

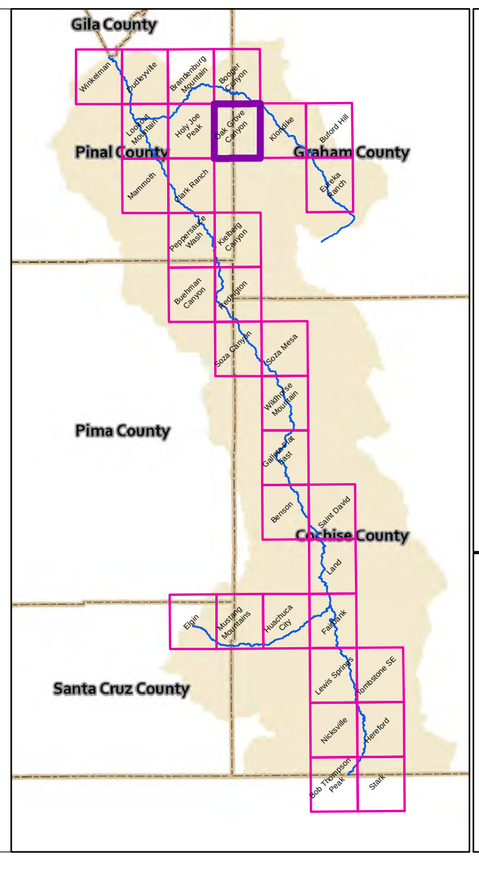
Disturbed Lands
- Disturbed
- Ditch
- Mining related

Basemap: ESRI World Imagery with Topography

1:24,000

0 1 2 Miles

N

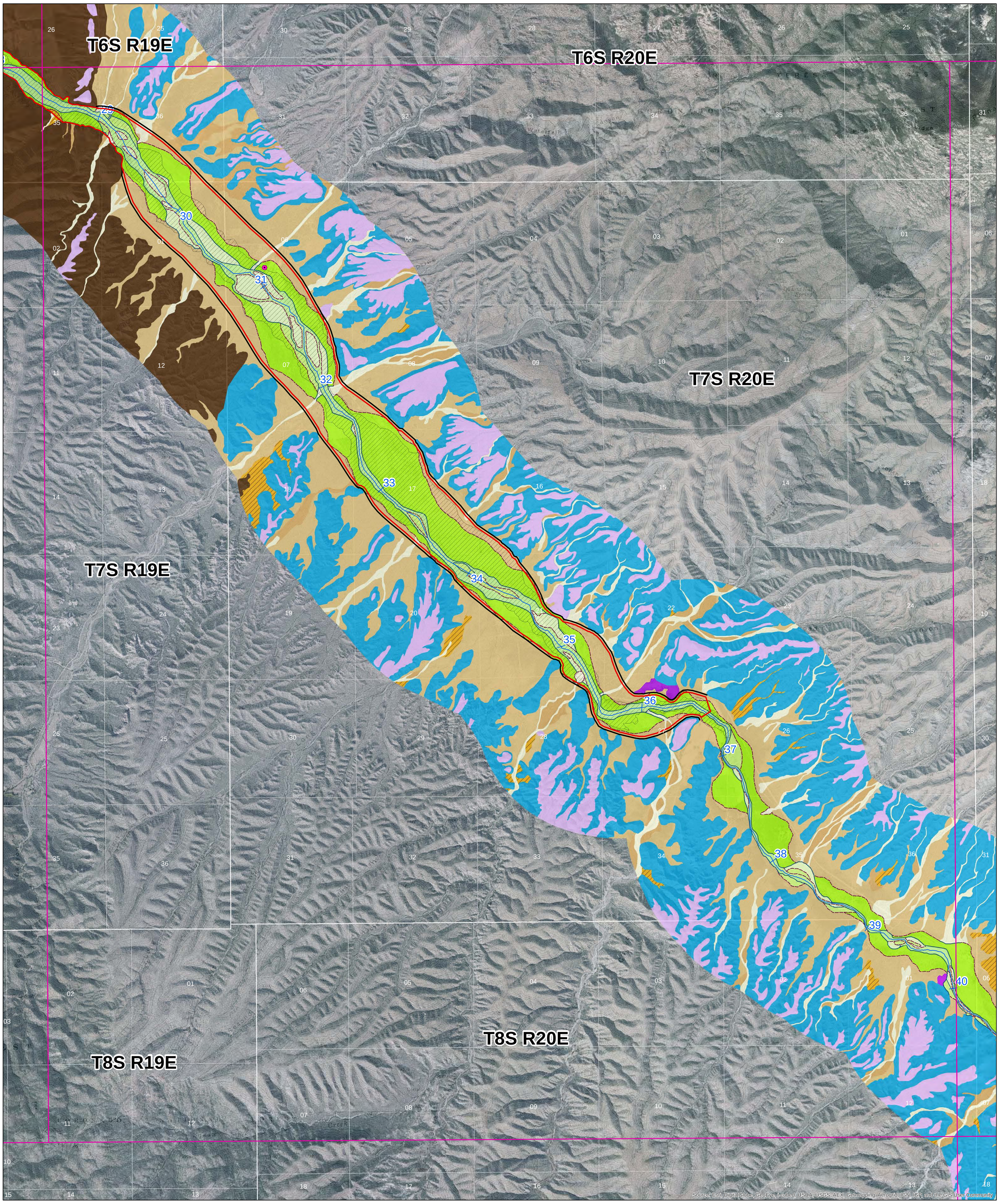


Workmap Series with Imagery and Topography

USGS Topo Quad: Oak Grove Canyon

Map 30 of 33

Revised Subflow Zone Delineation Report
April 2014



Legend

- AZGS Sites

Well Logs
- Professional Log
- Driller's Log

Water Level Analysis
- GWSI well in Holocene
- River Centerline
- Perpendicular to River Centerline

USFW Riparian
- Cottonwood-Willow
- Mesquite-Salt Cedar

Tributary Drainages
- Major Basins (>50 sqmi)
- Washes

- FHA Extent
- Subflow Zone

Holocene River Alluvium
- Active river channel deposits
- Flood channel & low terrace deposits
- Historical river terrace deposits
- Latest Holocene to historical river terrace deposits
- Late to early Holocene river terrace deposits

Holocene Tributary Stream Alluvium
- Modern stream channel deposits
- Latest Holocene Alluvium
- Late Holocene alluvium
- Older Holocene alluvium

Holocene Piedmont Alluvium

Historic Composite Active Floodplain

Pleistocene River Alluvium
- Late Pleistocene river terrace deposits
- Middle to late Plesitocene river terrace deposits
- Early to middle Pleistocene river terrace deposits
- Pleistocene river deposits
- Early Pleistocene river channel alluvium
- Quaternary hillslope talus & colluvium

Pleistocene Piedmont Alluvium

Pleistocene Alluvium

Tertiary Piedmont Alluvium

Tertiary Basin Fill Allivuium

Bedrock Units

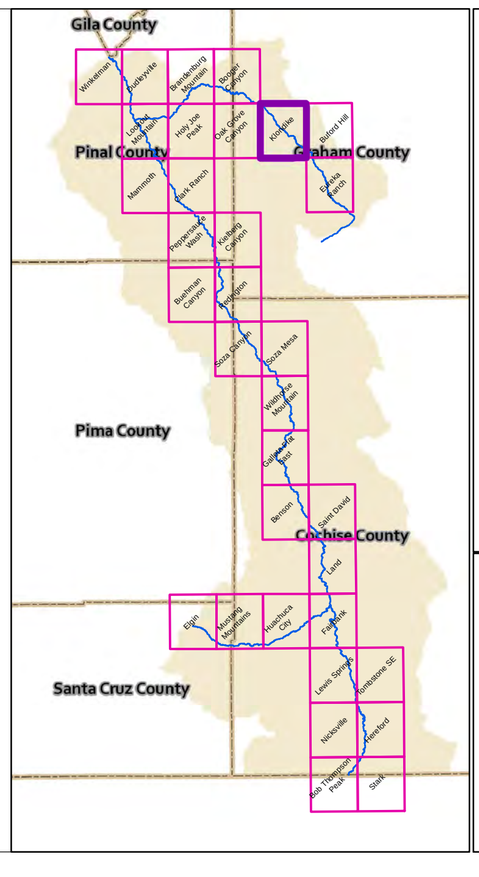
Disturbed Lands
- Disturbed
- Ditch
- Mining related

1:24,000

0 1 2 Miles

N

Basemap: ESRI World Imagery with Topography

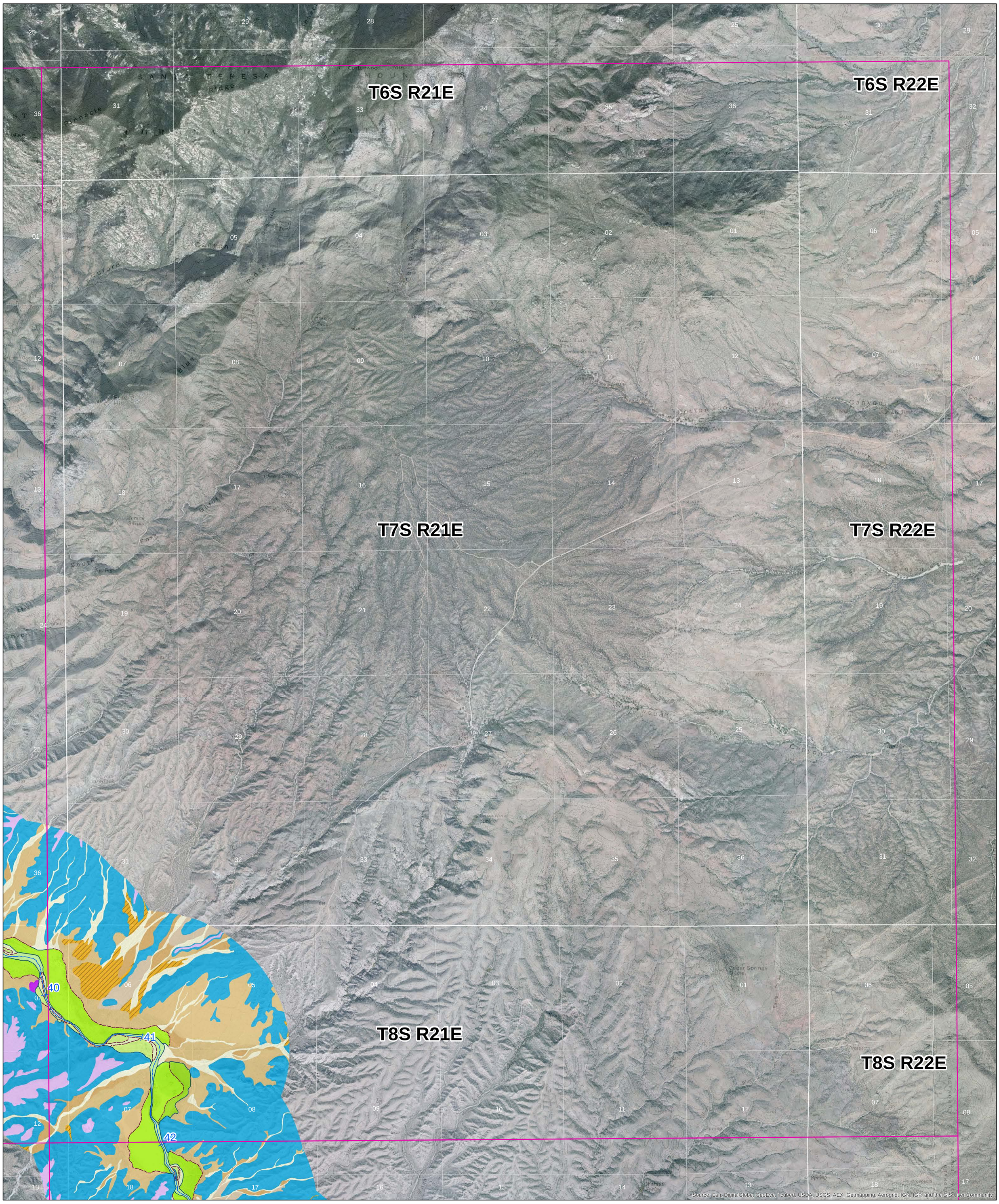


Workmap Series with Imagery and Topography

USGS Topo Quad: Klondike

Map 31 of 33

Revised Subflow Zone Delineation Report
April 2014



Legend

- AZGS Sites

Well Logs
- Professional Log
- Driller's Log

Water Level Analysis
- GWSI well in Holocene
- River Centerline
- Perpendicular to River Centerline

USFW Riparian
- Cottonwood-Willow
- Mesquite-Salt Cedar

Tributary Drainages
- Major Basins (>50 sqmi)
- Washes

- FHA Extent
- Subflow Zone

Holocene River Alluvium
- Active river channel deposits
- Flood channel & low terrace deposits
- Historical river terrace deposits
- Latest Holocene to historical river terrace deposits
- Late to early Holocene river terrace deposits

Holocene Tributary Stream Alluvium
- Modern stream channel deposits
- Latest Holocene Alluvium
- Late Holocene alluvium
- Older Holocene alluvium

Holocene Piedmont Alluvium
- Historic Composite Active Floodplain

Pleistocene River Alluvium
- Late Pleistocene river terrace deposits
- Middle to late Plesitocene river terrace deposits
- Early to middle Pleistocene river terrace deposits
- Pleistocene river deposits
- Early Pleistocene river channel alluvium
- Quaternary hillslope talus & colluvium

Pleistocene Piedmont Alluvium

Pleistocene Alluvium

Tertiary Piedmont Alluvium

Tertiary Basin Fill Allivuium

Bedrock Units

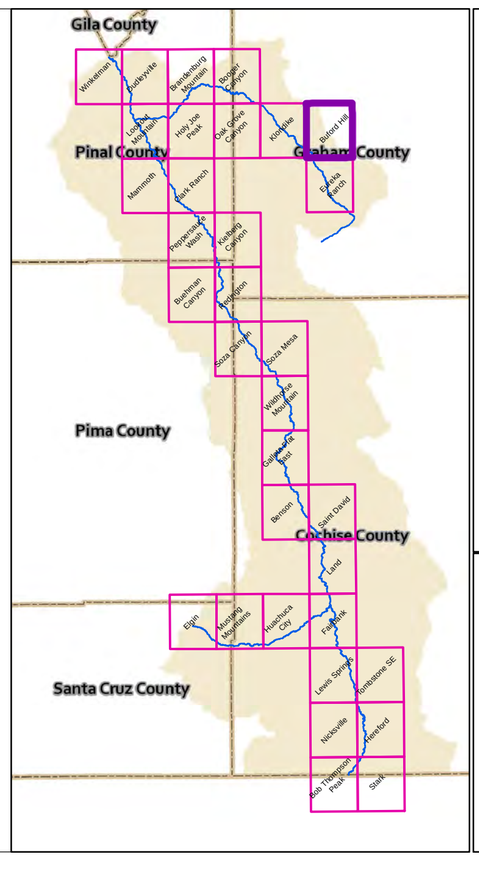
Disturbed Lands
- Disturbed
- Ditch
- Mining related

Basemap: ESRI World Imagery with Topography

1:24,000

0 1 2 Miles

N

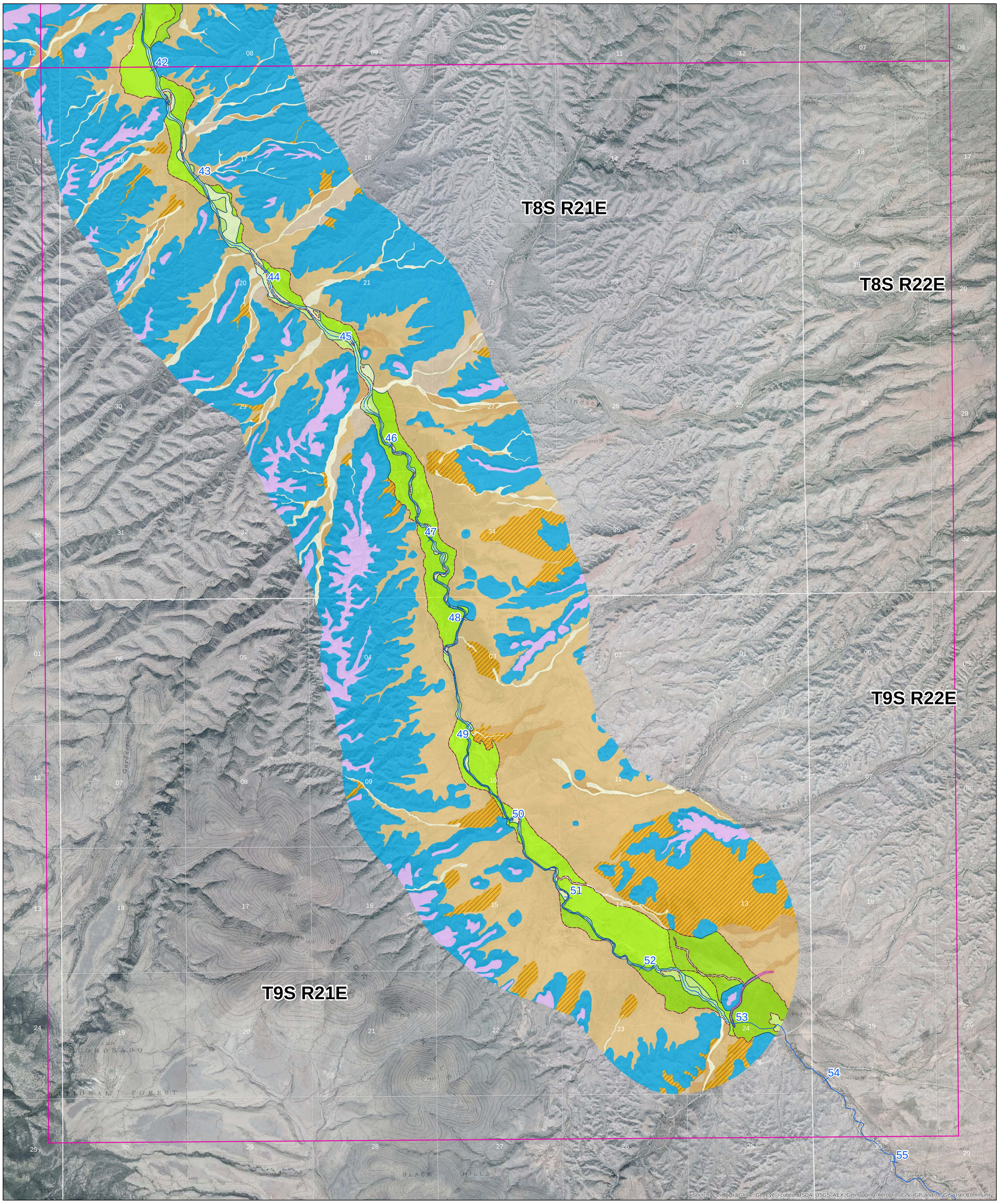


Workmap Series with Imagery and Topography

USGS Topo Quad: Buford Hill

Map 32 of 33

Revised Subflow Zone Delineation Report
April 2014



Legend

- AZGS Sites

Well Logs
- Professional Log
- Driller's Log

Water Level Analysis
- GWSI well in Holocene
- River Centerline
- Perpendicular to River Centerline

USFW Riparian
- Cottonwood-Willow
- Mesquite-Salt Cedar

Tributary Drainages
- Major Basins (>50 sqmi)
- Washes

- FHA Extent
- Subflow Zone

Holocene River Alluvium
- Active river channel deposits
- Flood channel & low terrace deposits
- Historical river terrace deposits
- Latest Holocene to historical river terrace deposits
- Late to early Holocene river terrace deposits

Holocene Tributary Stream Alluvium
- Modern stream channel deposits
- Latest Holocene Alluvium
- Late Holocene alluvium
- Older Holocene alluvium

Holocene Piedmont Alluvium

- Historic Composite Active Floodplain

Pleistocene River Alluvium
- Late Pleistocene river terrace deposits
- Middle to late Plesitocene river terrace deposits
- Early to middle Pleistocene river terrace deposits
- Pleistocene river deposits
- Early Pleistocene river channel alluvium
- Quaternary hillslope talus & colluvium

Pleistocene Piedmont Alluvium

Pleistocene Alluvium

Tertiary Piedmont Alluvium

Tertiary Basin Fill Allivuium

Bedrock Units

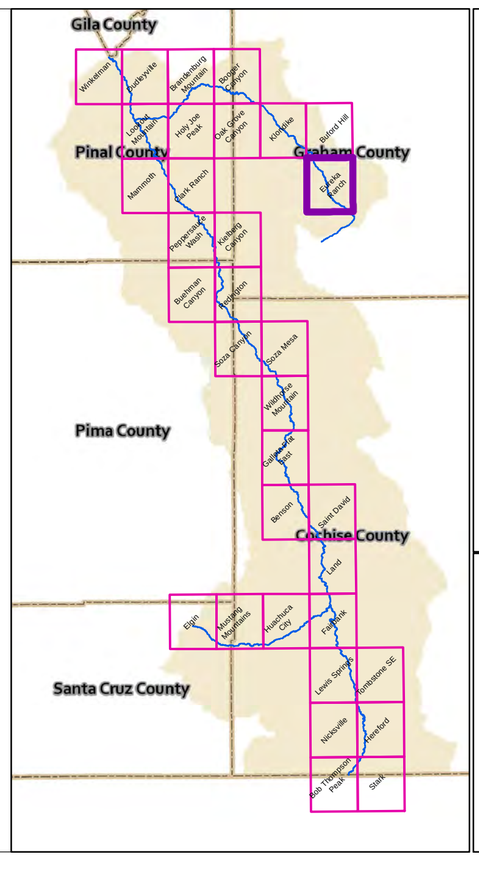
Disturbed Lands
- Disturbed
- Ditch
- Mining related

1:24,000

0 1 2 Miles

N

Basemap: ESRI World Imagery with Topography



Workmap Series with Imagery and Topography

USGS Topo Quad: Eureka Ranch

Map 33 of 33

Revised Subflow Zone Delineation Report
April 2014