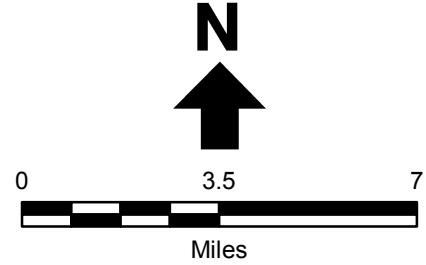


Kern County Subbasin of San Joaquin Valley (5-22.14)

Proposed White Wolf Subbasin



- Legend**
- Proposed White Wolf Subbasin
 - Existing DWR Kern County Subbasin

Abbreviations
DWR = California Department of Water Resources

Notes
1. All locations are approximate.

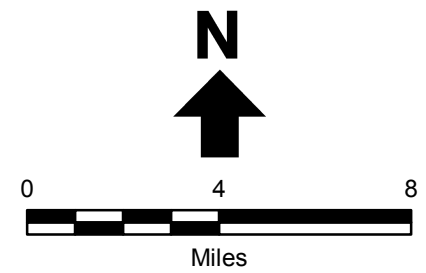
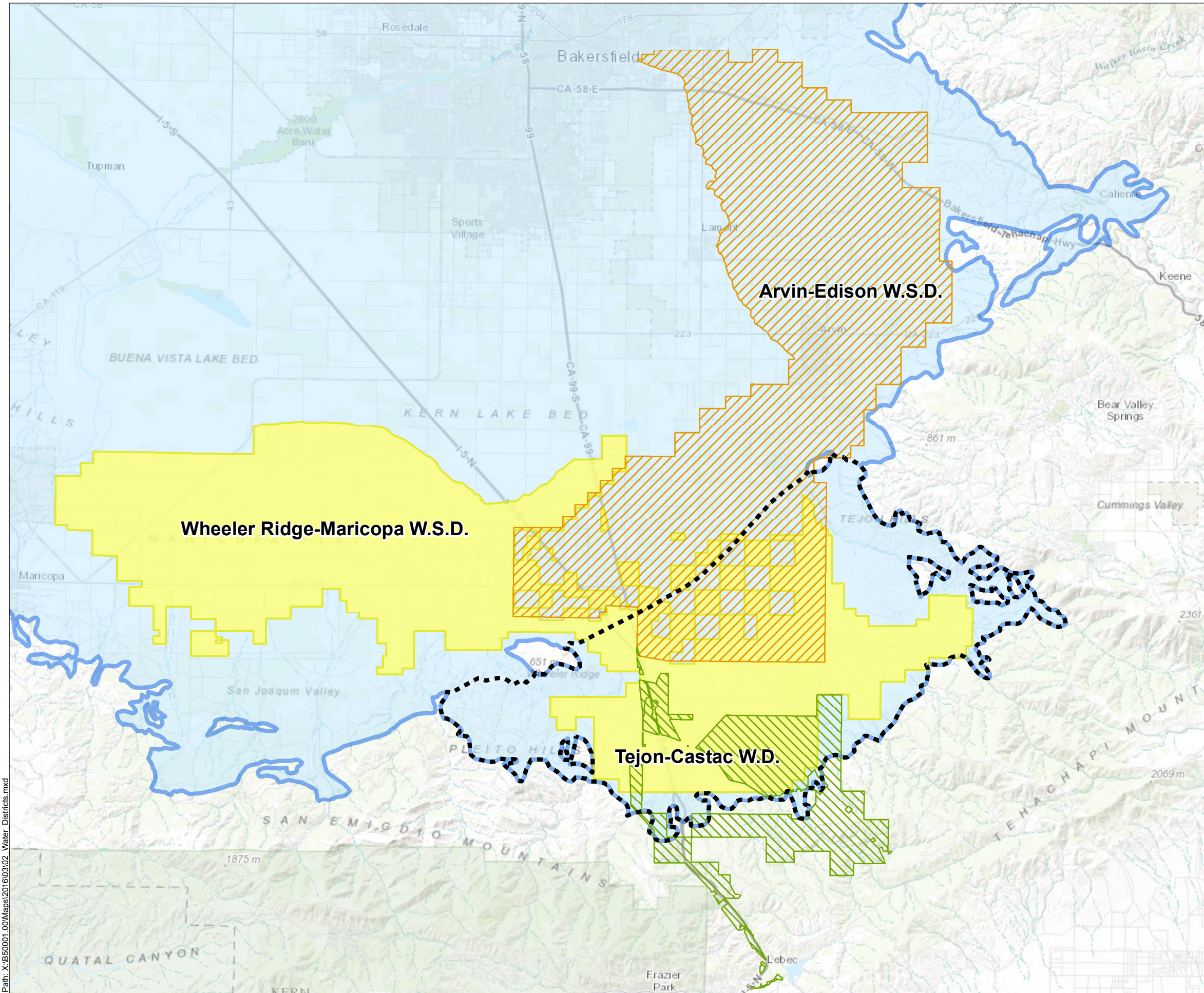
Sources
1. DWR groundwater basins are based on the boundaries defined in California's Groundwater, Bulletin 118 - Update 2003, California DWR (2003).
2. Basemap is ESRI's ArcGIS Online world topographic map.

Erler & Kalinowski, Inc.

Proposed White Wolf Subbasin Boundary

Tejon-Castac Water District
Kern County, CA
March 2016
EKI B50001.00
Figure 1

Path: X:\B50001.00\Maps\2016\02\01_Proposed_Subbasin_Boundary.mxd



Legend

- Proposed White Wolf Subbasin
- Existing DWR Kern County Subbasin
- Water Districts**
- Arvin-Edison W.S.D.
- Tejon-Castac W.D.
- Wheeler Ridge-Maricopa W.S.D.

Abbreviations

- DWR = California Department of Water Resources
- GSA = Groundwater Sustainability Agency
- SGMA = Sustainable Groundwater Management Act
- W.D. = Water District
- W.S.D. = Water Storage District

Notes

1. Under the SGMA, in the event that areas within a basin are not within the management area of a GSA, the county will be presumed to be the GSA for those areas.
2. Tejon-Castac W.D. boundary includes Annexation Area No. 5, as provided by Tejon-Castac W.D.
3. All locations are approximate.

Sources

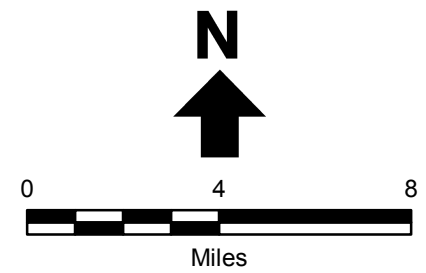
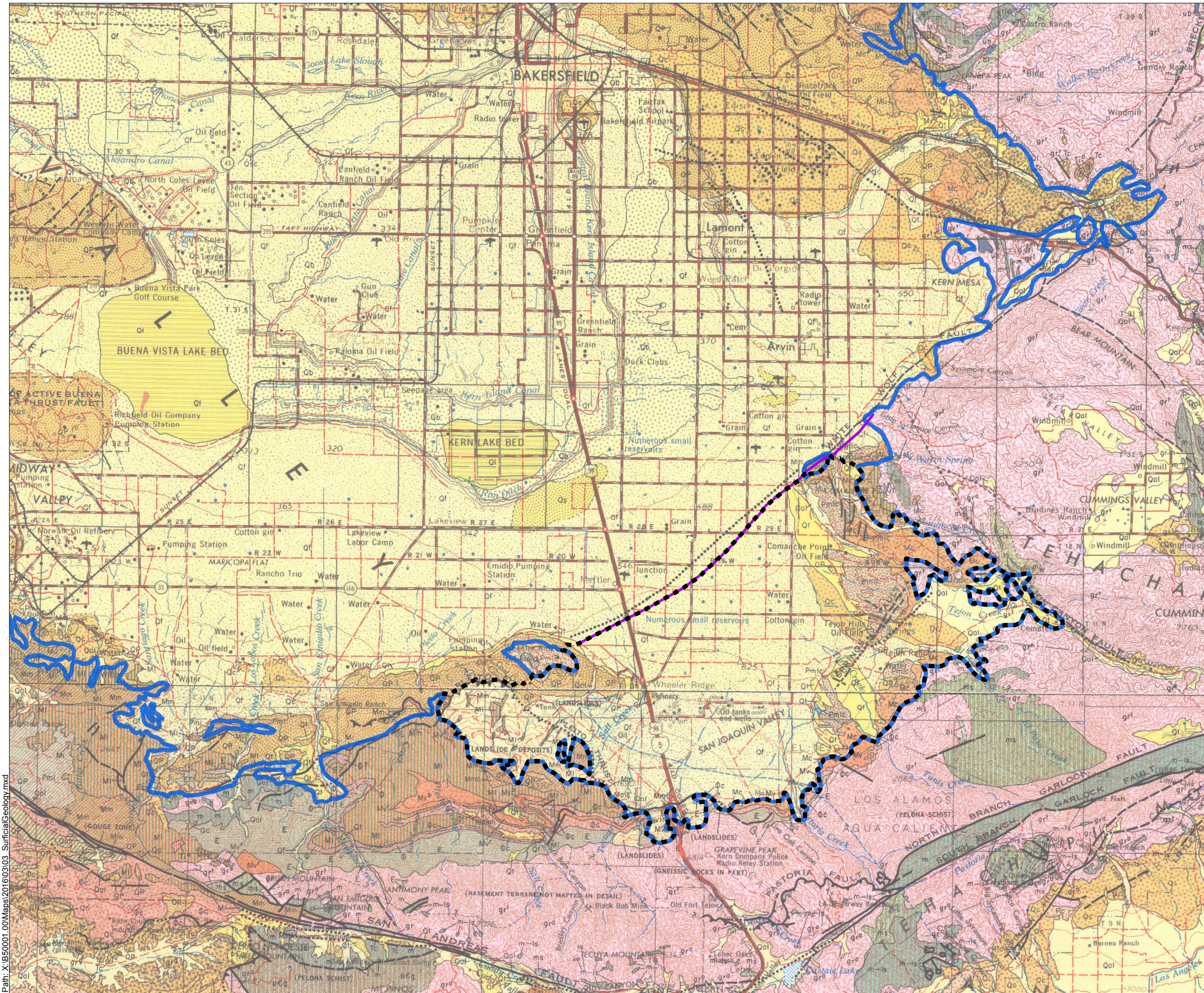
1. DWR groundwater basins are based on the boundaries defined in California's Groundwater, Bulletin 118 - Update
2. Water district boundaries obtained from U.S. Bureau of Reclamation MPGIS Service Center in coordination with the California Department of Water Resources.
3. Basemap is ESRI's ArcGIS Online world topographic map.

Erler & Kalinowski, Inc.

Water District Boundaries

Tejon-Castac Water District
 Kern County, CA
 March 2016
 EKI B50001.00
 Figure 2

Path: X:\B50001.00\Maps\2016\03\02 Water Districts.mxd



- Legend**
- Proposed White Wolf Subbasin Boundary
 - Existing DWR Kern County Subbasin
 - White Wolf Fault Trace from Wood and Dale, 1964 (USGS)
- Geologic Units**
- Qal Quaternary alluvium
 - Qc Pleistocene nonmarine
 - Qf Quaternary fan deposits
 - Qp Quaternary nonmarine terrace deposits
 - Qr Plio Pleistocene nonmarine
 - Pm Middle and/or lower Pliocene nonmarine
 - M Undivided Miocene nonmarine
 - L Lower Miocene marine

- Notes**
1. Geologic units displayed in the legend are selected units from Source 1. Full surficial geology maps, including legends for surficial geology features, are included in Appendix A.
 2. All locations are approximate.

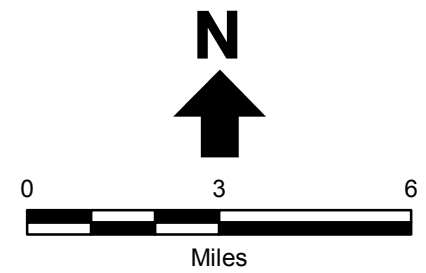
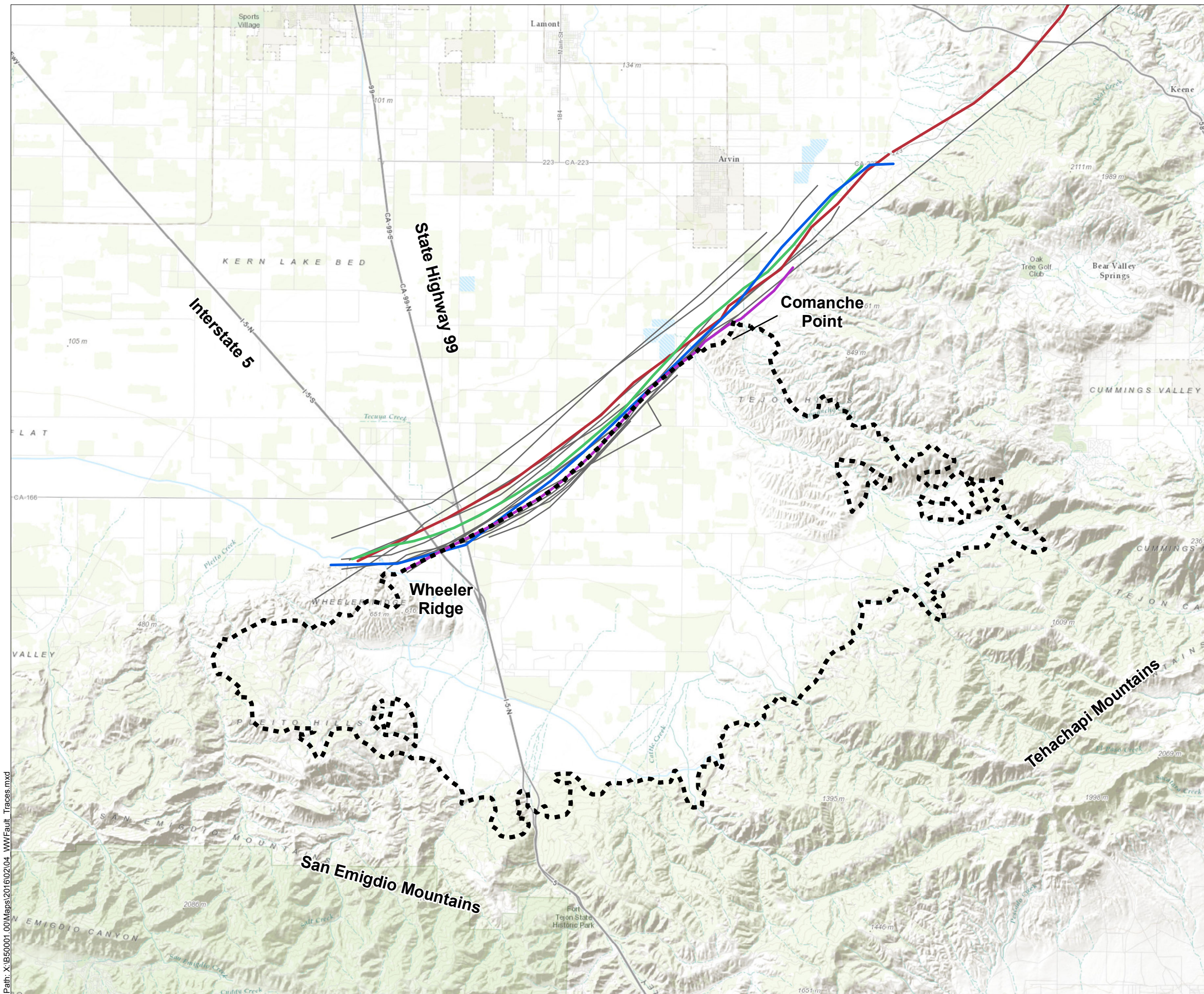
- Sources**
1. Surficial geology from: California Division of Mines and Geology, Geologic Map of California, Olaf P. Jenkins Edition, Bakersfield Sheet (1964) and Los Angeles Sheet (1969)
 2. White Wolf Fault trace from Wood, P.R. and R. H. Dale, Geology and Ground-Water Features of the Edison-Maricopa Area, Kern County, California, USGS Water Supply Paper 1656, 1964.

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Surficial Geology in and Surrounding the White Wolf Subbasin

Tejon-Castac Water District
 Kern County, CA
 March 2016
 EKI B50001.00
 Figure 3

Path: X:\B50001_00\Maps\2016\03\03_SurficialGeology.mxd



- Legend**
- Proposed White Wolf Subbasin
 - White Wolf Fault Traces**
 - DWR, 2010
 - Lofgren, 1975
 - Ross et al., 1986
 - Wood and Dale, 1964 (USGS)
 - Other White Wolf Fault Traces (See Note 2)

- Abbreviations**
- DWR = California Department of Water Resources
 - USGS = United States Geological Survey

- Notes**
1. The colored fault traces were deemed to be of potentially higher accuracy based on the scale and spatial resolution of the source and the confidence in georeferencing.
 2. Other White Wolf Fault traces are listed below.
 3. Full citations for sources used for all traces are provided in Section 8.
 4. All locations are approximate.

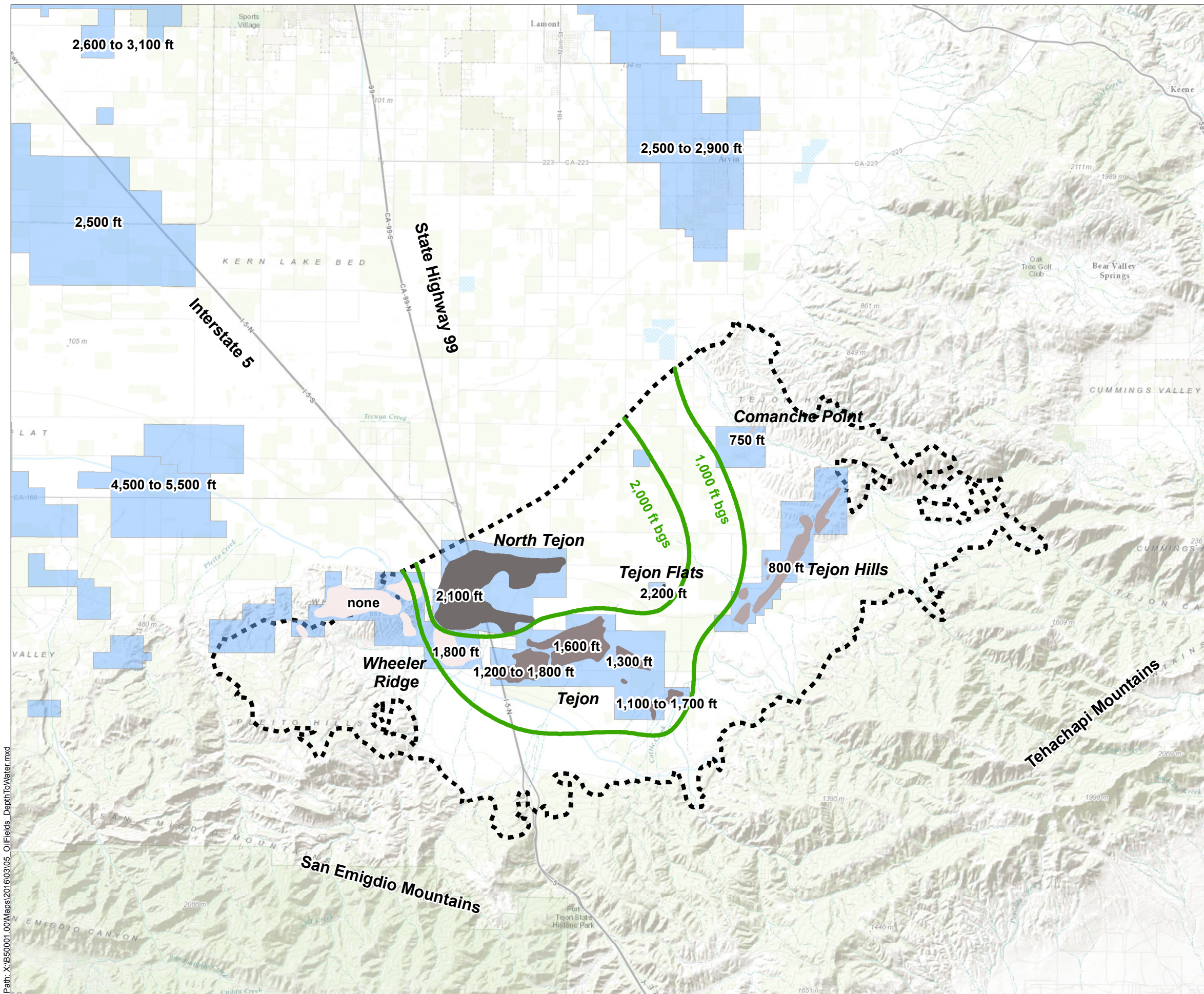
- Sources**
1. Other fault traces include traces from the following sources: Hoots, 1930; Webb, 1955; Davis et al., 1959; Bookman-Edmonston, 1975; Swanson, 1977; Milobar and Ternstrup, 1981; Bookman-Edmonston, Inc., 1995; Lewy, 2001; and Zoback, 2003.
 2. Basemap is ESRI's ArcGIS Online world topographic map.

Erler & Kalinowski, Inc.

White Wolf Fault Traces
by Various Investigators

Tejon-Castac Water District
Kern County, CA
February 2016
EKI B50001.00
Figure 4

Path: X:\B50001.00\Maps\2016\02\04 WWFault_Traces.mxd



Legend

- Proposed White Wolf Subbasin
 - Contours of Approximate Depth to Base of Fresh Water
 - Oil Field Administrative Boundaries
- DOGGR Oil Fields**
- Comanche Point
 - North Tejon
 - Tejon
 - Tejon Flats
 - Tejon Hills
 - Wheeler Ridge

Abbreviations

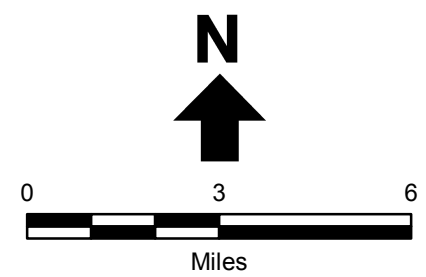
- DOGGR = Division of Oil, Gas and Geothermal Resources
- ft bgs = feet below ground surface
- TDS = Total Dissolved Solids
- mg/L = milligrams per liter

Notes

1. All locations are approximate.
2. Values depicted on the map are approximate depths to base of fresh water, as defined by DOGGR to be 3,000 mg/L TDS.

Sources

1. Oil field data from DOGGR, 1998, California Oil and Gas Fields, Volume 1 - Central California and DOGGR, 1989, The Effects of Oil Field Operations on Underground Sources of Drinking Water in Kern County.
2. Basemap is ESRI's ArcGIS Online world topographic map.

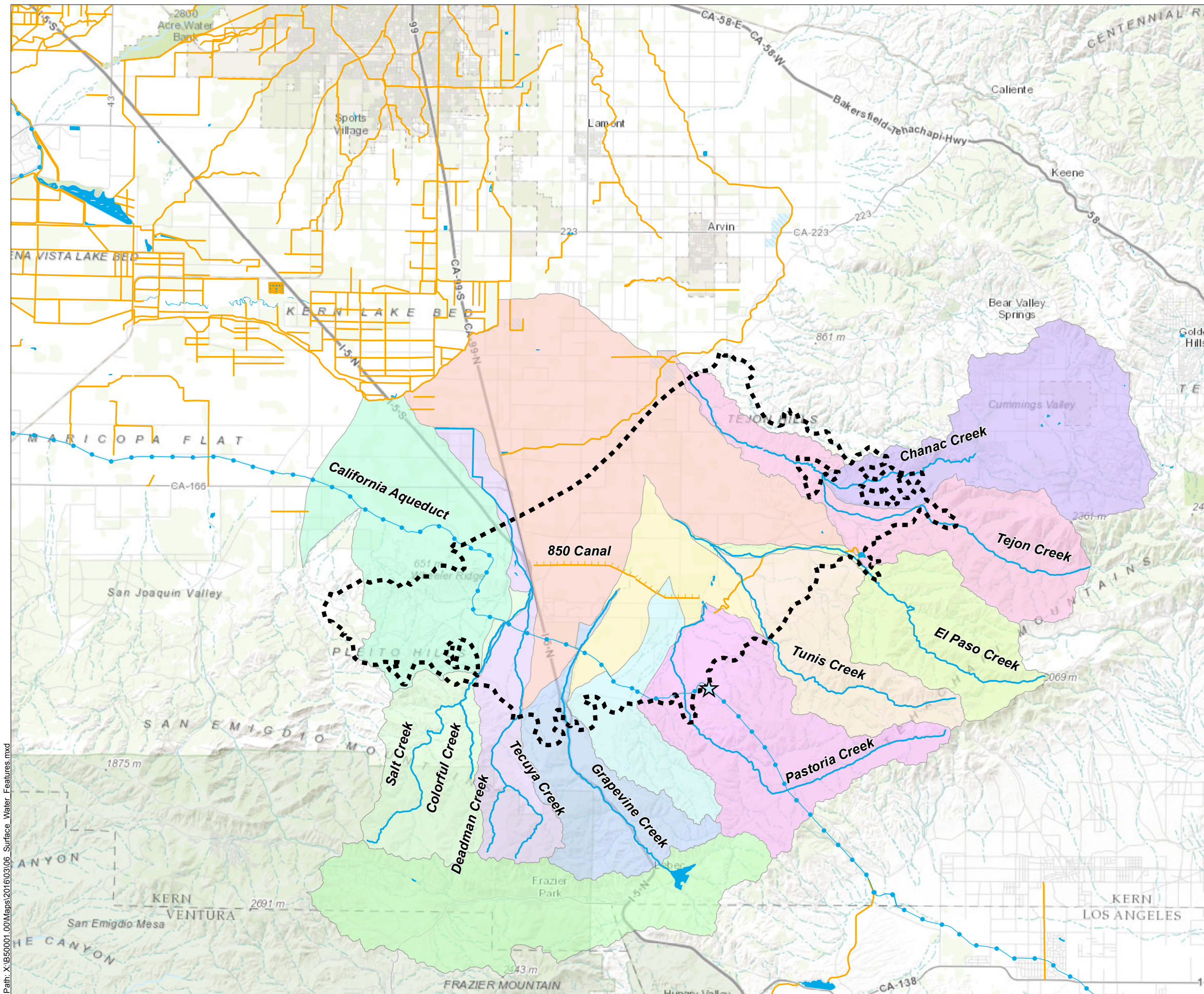


Erler & Kalinowski, Inc.

Locations of Oil Fields and Depth to Base of Fresh Water

Tejon-Castac Water District
 Kern County, CA
 March 2016
 EKI B50001.00
 Figure 5

Path: X:\B50001.00\Maps\2016\03\05 OilFields_DepthToWater.mxd



Legend

- Proposed White Wolf Subbasin
- A.D. Edmonston Pumping Plant
- Surface Water**
 - Selected Creeks
 - California Aqueduct
 - Canals and Irrigation Ditches
 - 850 Canal
 - Lake or Pond
- Watersheds**

Caparell Creek	O'Neil Canyon-Grapevine Creek
Castac Lake	Salt Creek
Chanac Creek	Tecuya Creek
Live Oak Canyon	Telegraph Canyon
Lower Pastoria Creek	Tunis Creek
Lower Tejon Creek	Upper Pastoria Creek
	Winters Canyon-El Paso Creek

Abbreviations

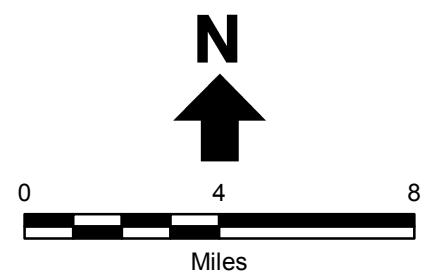
HU = Hydrologic Unit

Notes

1. Grapevine Creek traced upstream of the proposed White Wolf Subbasin boundary based on the ESRI basemap.
2. All locations are approximate.

Sources

1. Surface water data from the National Hydrography Dataset.
2. Watersheds are HU-12 from the U.S. Geological Survey Watershed Boundary Dataset.
3. California Aqueduct from Kern Geographic Information Network.
4. Basemap is ESRI's ArcGIS Online world topographic map.

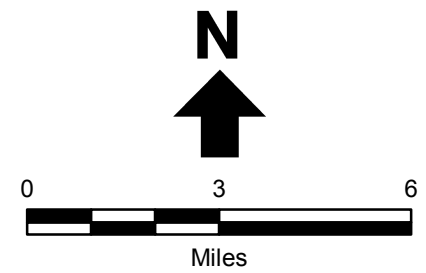
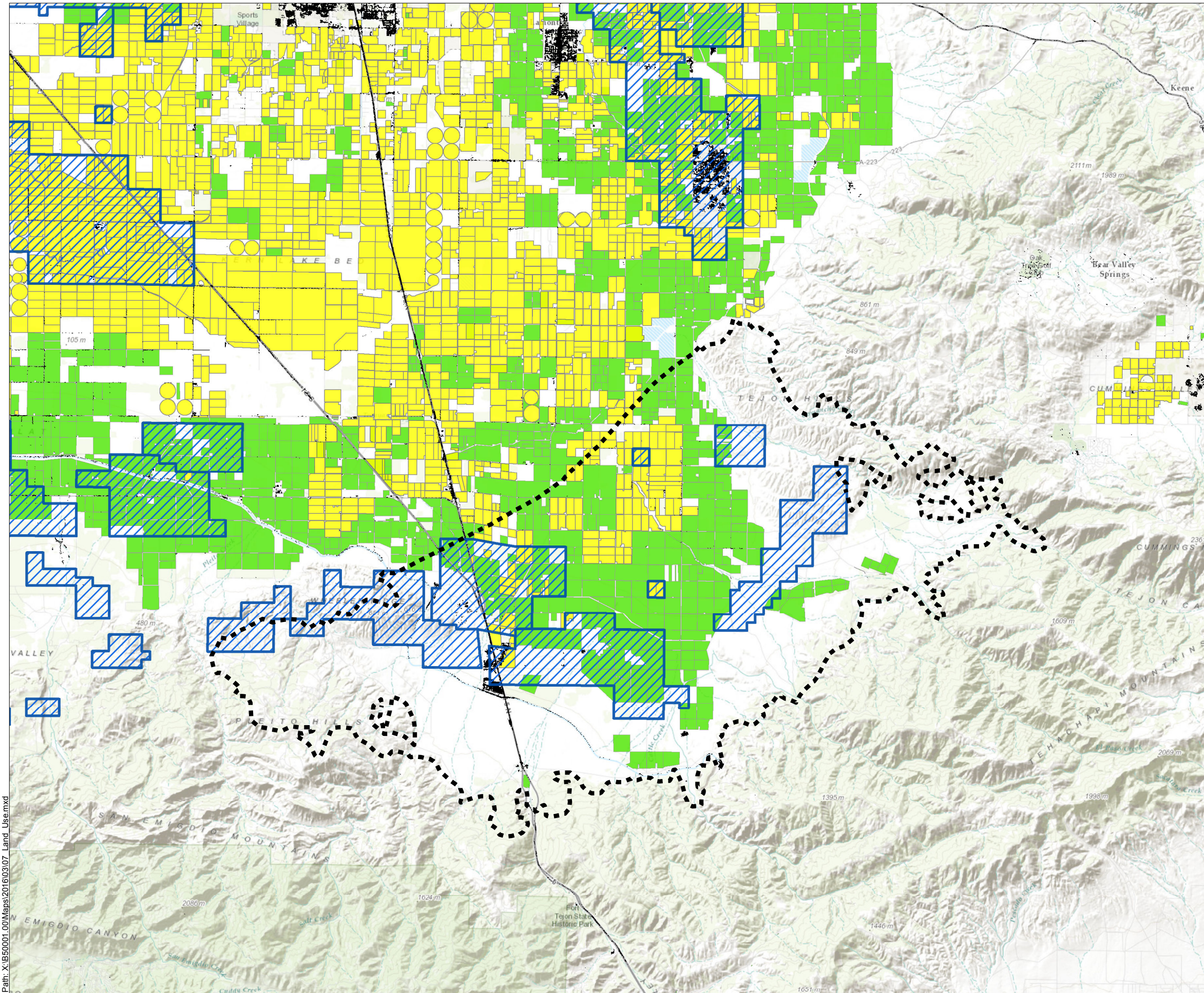


Erler & Kalinowski, Inc.

Prominent Surface Water Features in the White Wolf Subbasin

Tejon Ranch Company
 Tejon, CA
 March 2016
 EKI B50001.00
 Figure 6

Path: X:\B50001.00\Maps\2016\03\06_Surface Water_Features.mxd



Legend

- Proposed White Wolf Subbasin
- Oil Field Administrative Boundaries
- Land Use Categories**
- Developed Land*
- Medium to High Intensity
- Agricultural Land*
- Cropland and Pasture
- Orchards, Groves, and Vineyards

Abbreviations

DOGGR = Division of Oil, Gas and Geothermal Resources
 MRLC = Multi-Resolution Land Characteristics

Notes

1. Agricultural land use classifications based on the Anderson Level II categories in Source 3.
2. All locations are approximate.

Sources

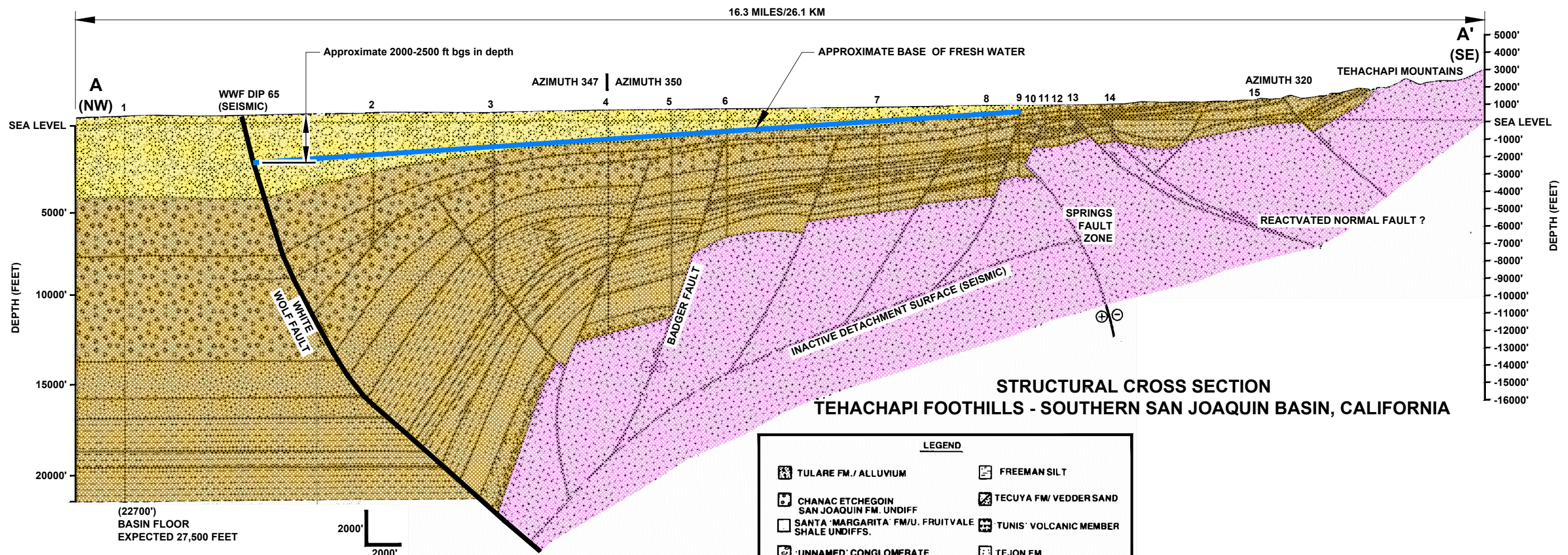
1. Oil field data from DOGGR, 1998, California Oil and Gas Fields, Volume 1 - Central California and DOGGR, 1989, The Effects of Oil Field Operations on Underground Sources of Drinking Water in Kern County.
2. Agricultural land use from Kern County Department of Agriculture and Measurement Standards.
3. Agricultural land use classifications from Gilliom and Thelin, 1997, Classification and Mapping of Agricultural Land for National Water-Quality Assessment, U.S. Geological Survey Circular 1131.
4. Developed land use from 2011 National Land Cover Database MRLC Consortium.
5. Basemap is ESRI's ArcGIS Online world topographic map.

**Erler &
Kalinowski, Inc.**

Land Use in and Surrounding the
White Wolf Subbasin

Tejon-Castac Water District
 Kern County, CA
 March 2016
 EKI B50001.00
 Figure 7

Path: X:\B50001.00\Maps\2016\03\07 Land Use.mxd



**STRUCTURAL CROSS SECTION
TEHACHAPI FOOTHILLS - SOUTHERN SAN JOAQUIN BASIN, CALIFORNIA**

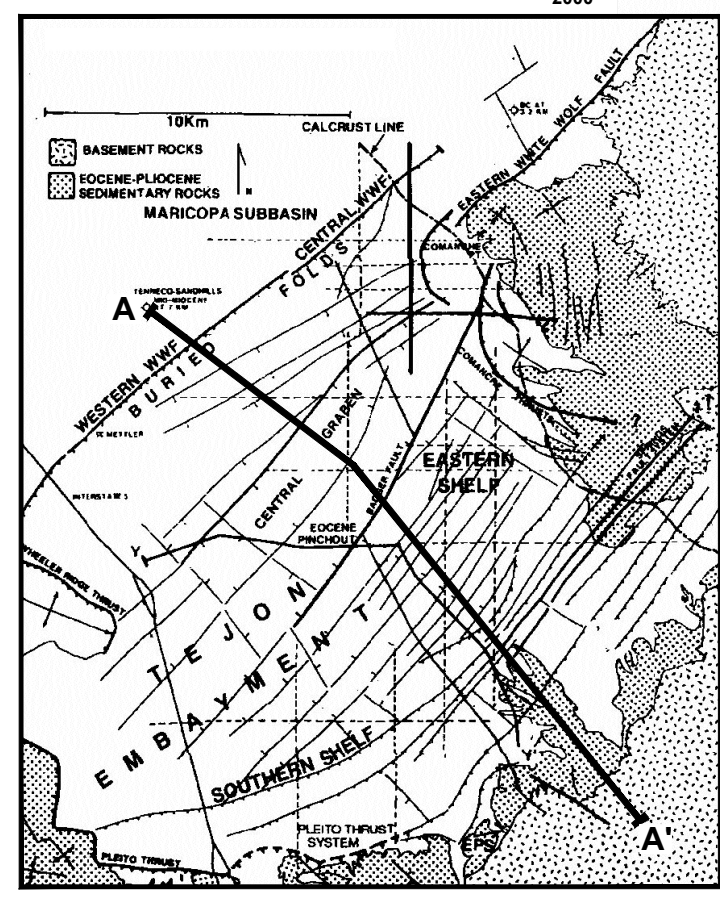
LEGEND

TULARE FM./ ALLUVIUM	FREEMAN SILT
CHANAC ETCHEGOIN SAN JOAQUIN FM. UNDIFF.	TECUYA FM/ VEDDER SAND
SANTA MARGARITA FM./U. FRUITVALE SHALE UNDIFFS.	TUNIS VOLCANIC MEMBER
UNNAMED CONGLOMERATE	TEJON FM.
LOWER FRUITVALE SHALE. MONTEREY FM.. ROUND MTN. SILT. OLCESE SAND	CRYSTALLINE BASEMENT

Explanation

	ALLUVIUM/TULARE FORMATION (PLIO-PLIOCENE TO RECENT)
	SANDSTONE, SILTSTONE, MINOR VOLCANICS (EOCENE TO EARLY PLIOCENE)
	CRYSTALLINE BASEMENT (PRE-TERTIARY)

Source:
Copyright (1992) Wiley. Used with permission from: Goodman, E.D., and Malin, P.E., Evolution of the Southern San Joaquin Basin and Mid-Tertiary "Transitional" Tectonics, Central California, in: Tectonics, vol.11, no. 3, pp 478-498, American Geophysical Union.



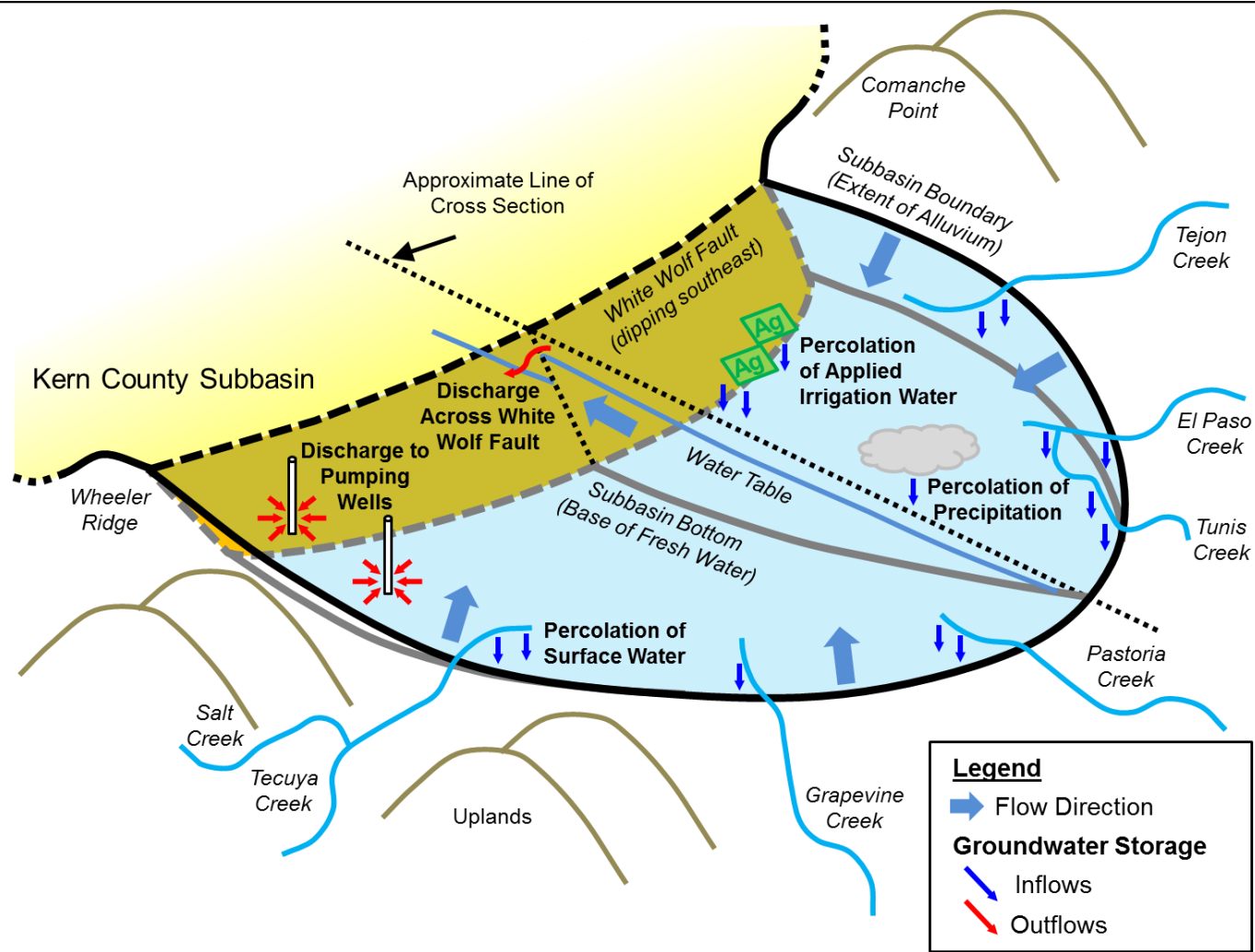
**FAULT STRUCTURE
SOUTHERN SAN JOAQUIN BASIN**

Erler & Kalinowski, Inc.

Geologic Cross-Section Through the White Wolf Subbasin

Tejon Ranch Company
Tejon, CA
March 2016
EKI B50001.00
Figure 8

C:\Users\ricastal\appdata\local\temp\AsxPublish_1404\Figure 8.dwg 3-16-16



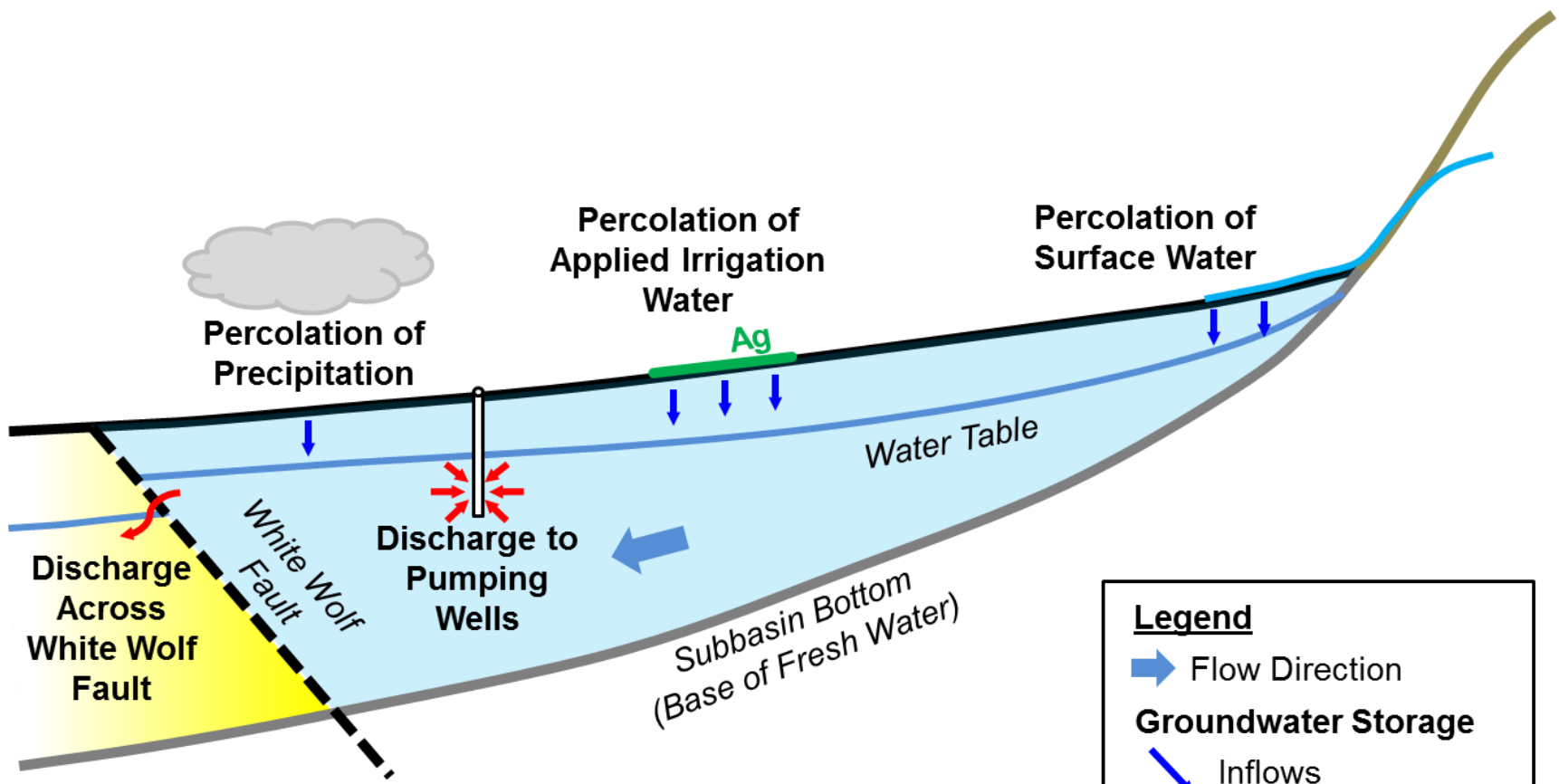
Erler & Kalinowski, Inc.

Conceptual Model of the White Wolf Subbasin




Tejon-Castac Water District
Kern County, CA

March 2016
EKI B50001.00

Figure 9a

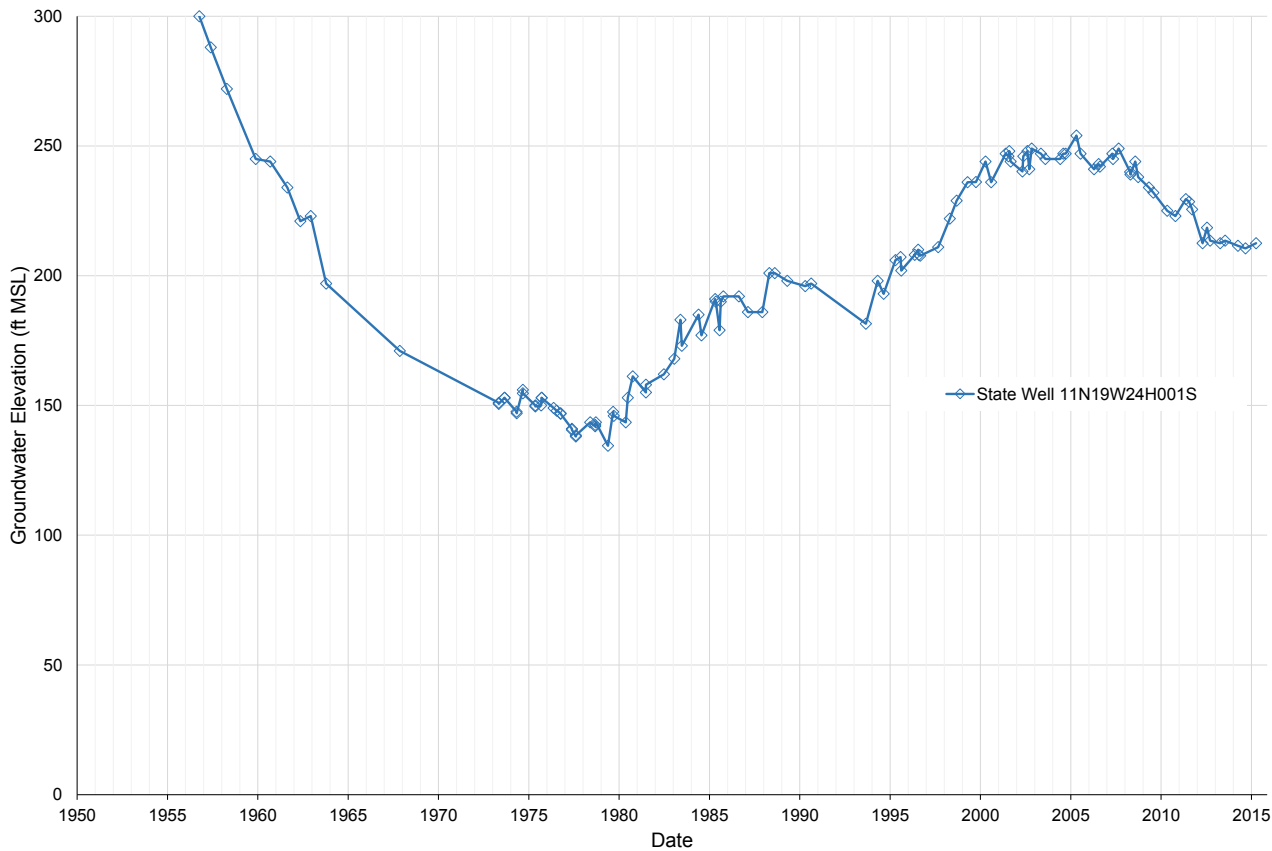


Legend

-  Flow Direction
- Groundwater Storage**
-  Inflows
-  Outflows

**Erler &
Kalinowski, Inc.**

Conceptual Model of the White Wolf Subbasin
Cross-Section



Abbreviations

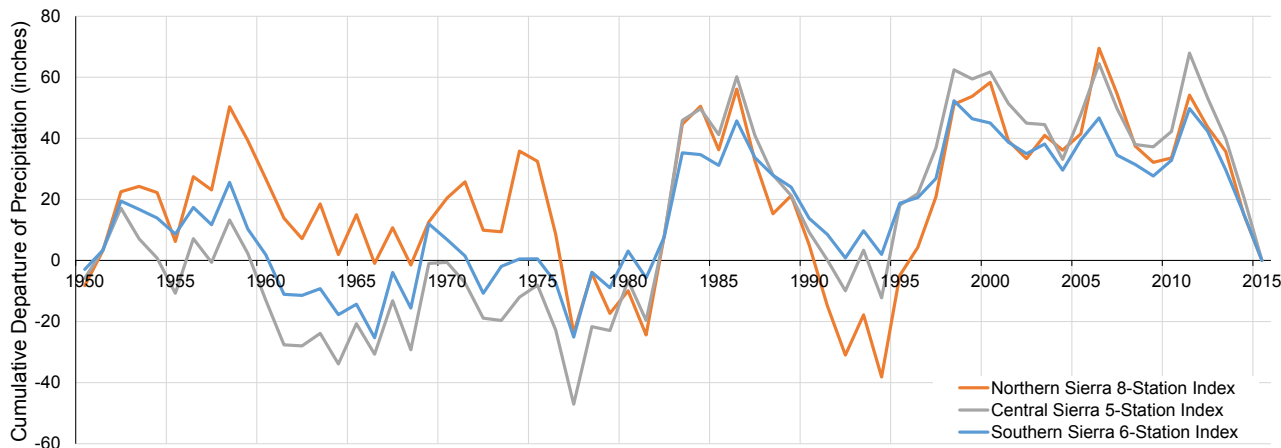
DWR = California Department of Water Resources
 ft MSL = feet above mean sea level
 WRMWSD = Wheeler Ridge-Maricopa Water Storage District

Notes

1. Cumulative departure of precipitation is calculated as the cumulative difference of annual precipitation values from mean precipitation over the period 1950-2015.
2. The Northern Sierra 8-Station Index represents precipitation conditions in the Sacramento Basin. The Central Sierra 5-Station Index represents precipitation conditions in the San Joaquin Basin. The Southern Sierra 6-Station Index represents precipitation conditions in the Tulare Basin.

Sources

1. Groundwater elevations for 1954-2010 provided by WRMWSD on 10 December 2015.
2. Groundwater elevations for 2011-2015 from the DWR Water Data Library.
3. Precipitation data from the DWR California Data Exchange Center: http://cdec.water.ca.gov/snow_rain.html.



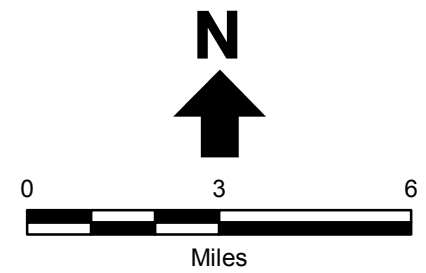
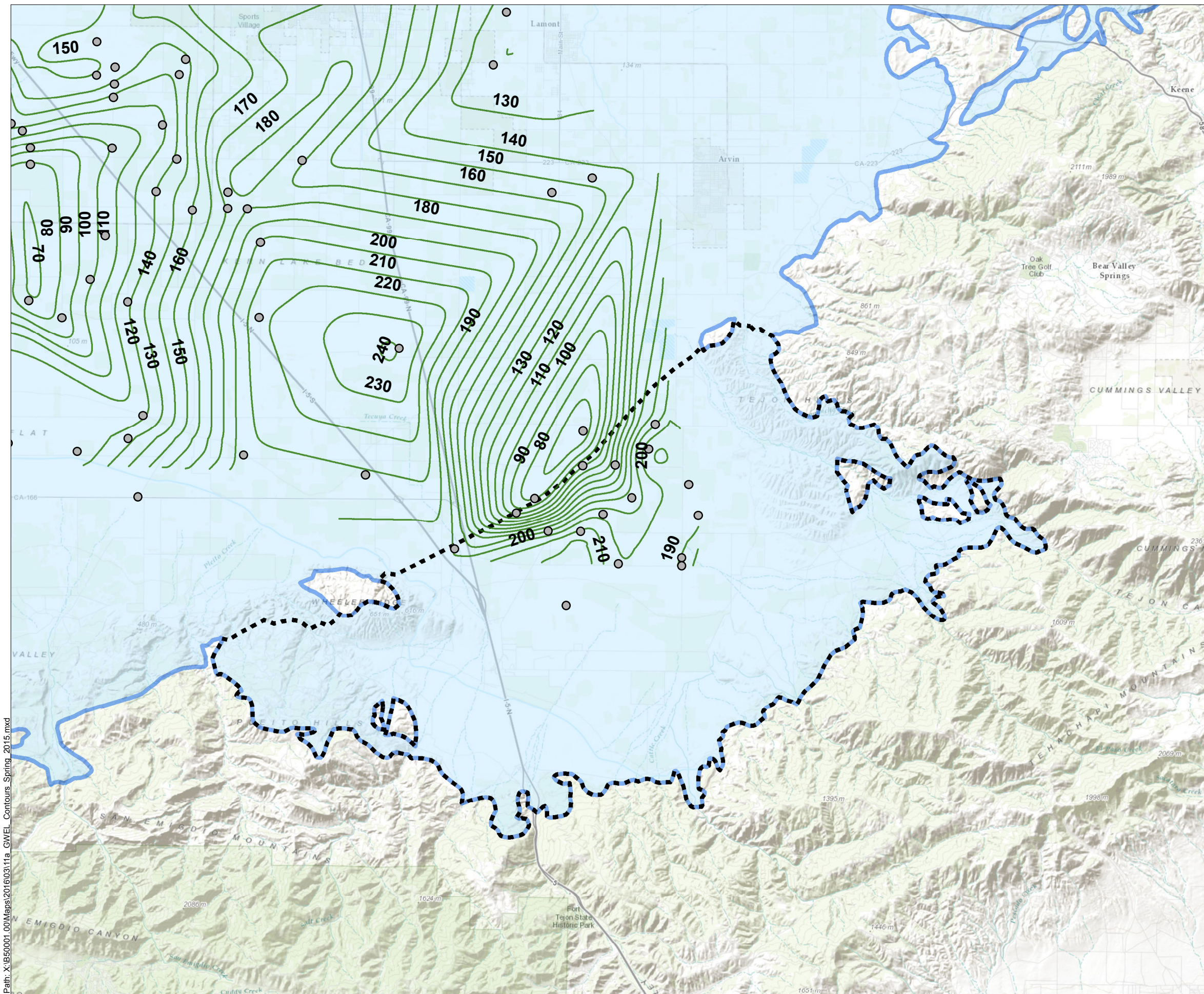
Erler & Kalinowski, Inc.

White Wolf Subbasin
 Index Well Hydrograph

Tejon-Castac Water District
 Kern County, CA

March 2016
 EKI B50001.00

Figure 10



- Legend**
- Proposed White Wolf Subbasin
 - Existing DWR Kern County Subbasin
 - Well Data
 - Groundwater Elevation Contours, Spring 2015 (ft MSL)

Abbreviations
 DWR = California Department of Water Resources
 ft MSL = feet above mean sea level

Notes
 1. All locations are approximate.

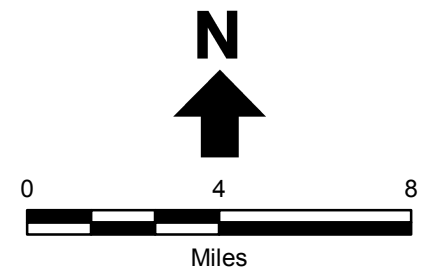
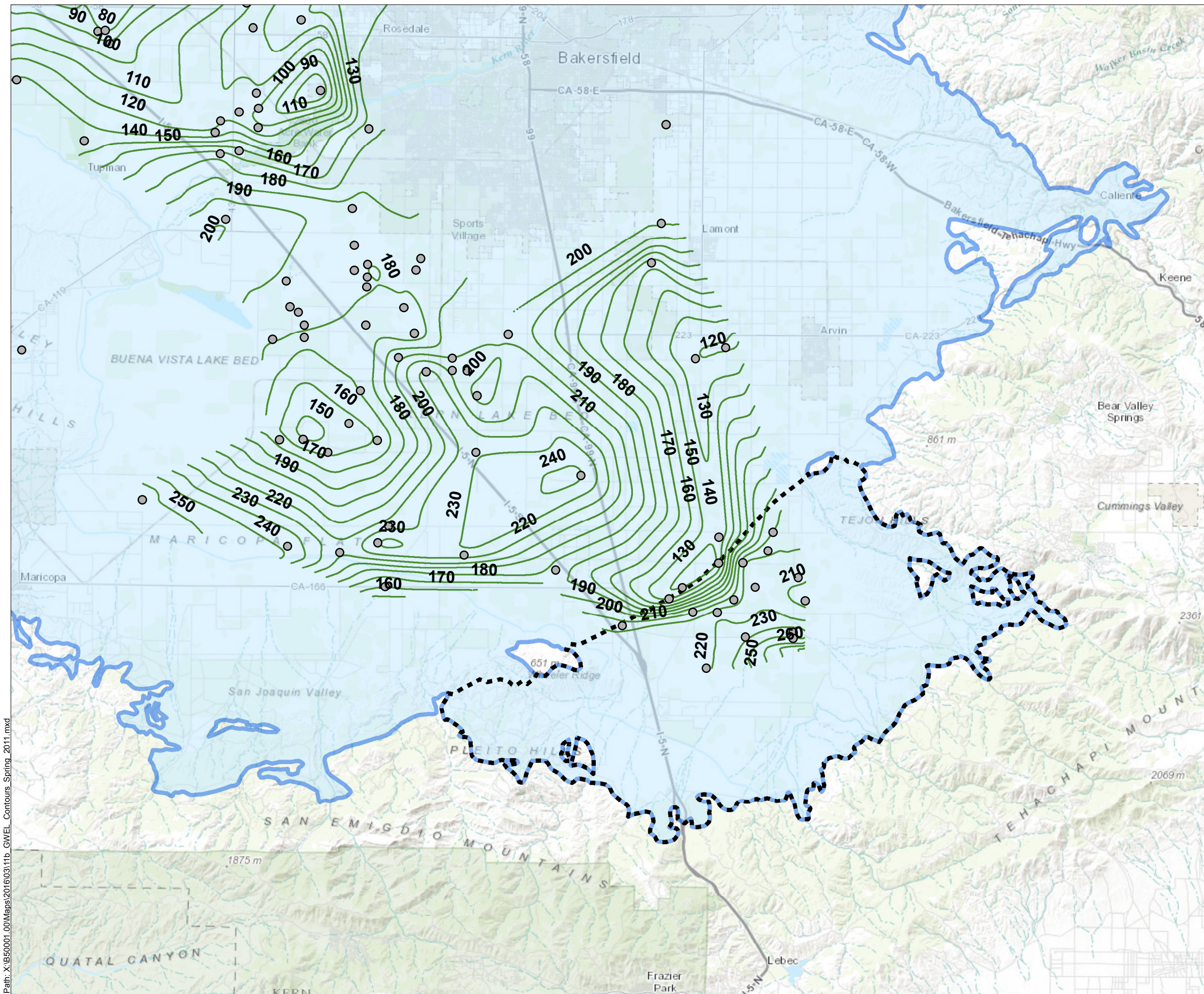
Sources
 1. Groundwater elevation contours obtained from the DWR Groundwater Information Center.
 2. Basemap is ESRI's ArcGIS Online world topographic map.

Erler & Kalinowski, Inc.

Groundwater Elevation Contours
 Spring 2015

Tejon-Castac Water District
 Kern County, CA
 March 2016
 EKI B50001.00
 Figure 11a

Path: X:\B50001.00\Maps\2016\03\11a GWEL Contours Spring 2015.mxd



- Legend**
- Proposed White Wolf Subbasin
 - Existing DWR Kern County Subbasin
 - Well Data
 - Groundwater Elevation Contours, Spring 2011 (ft MSL)

Abbreviations
 DWR = California Department of Water Resources
 ft MSL = feet above mean sea level

Notes
 1. All locations are approximate.

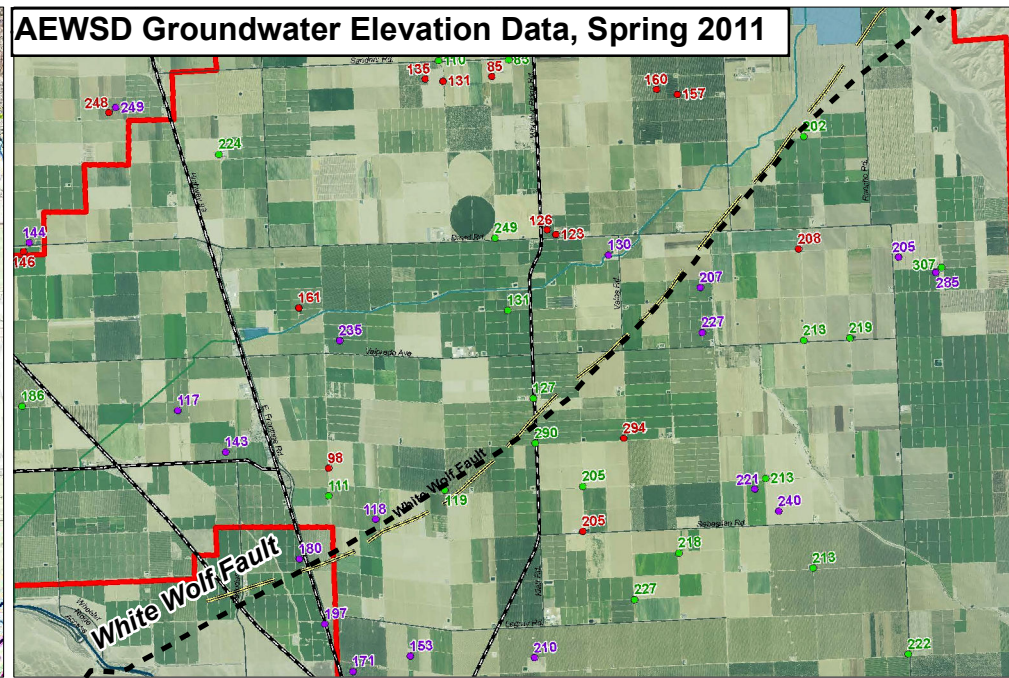
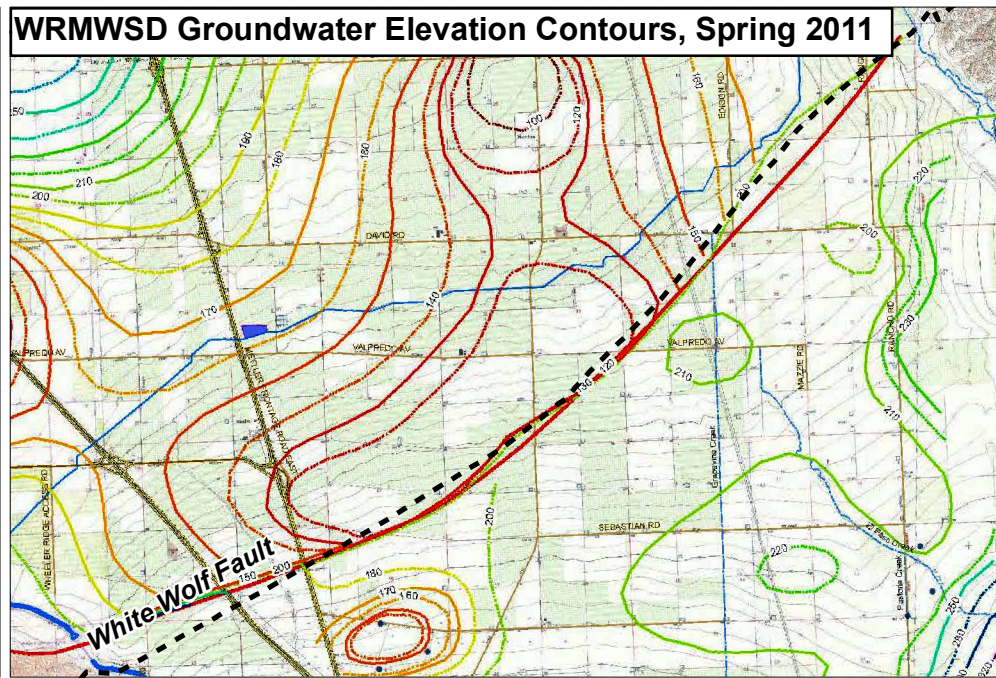
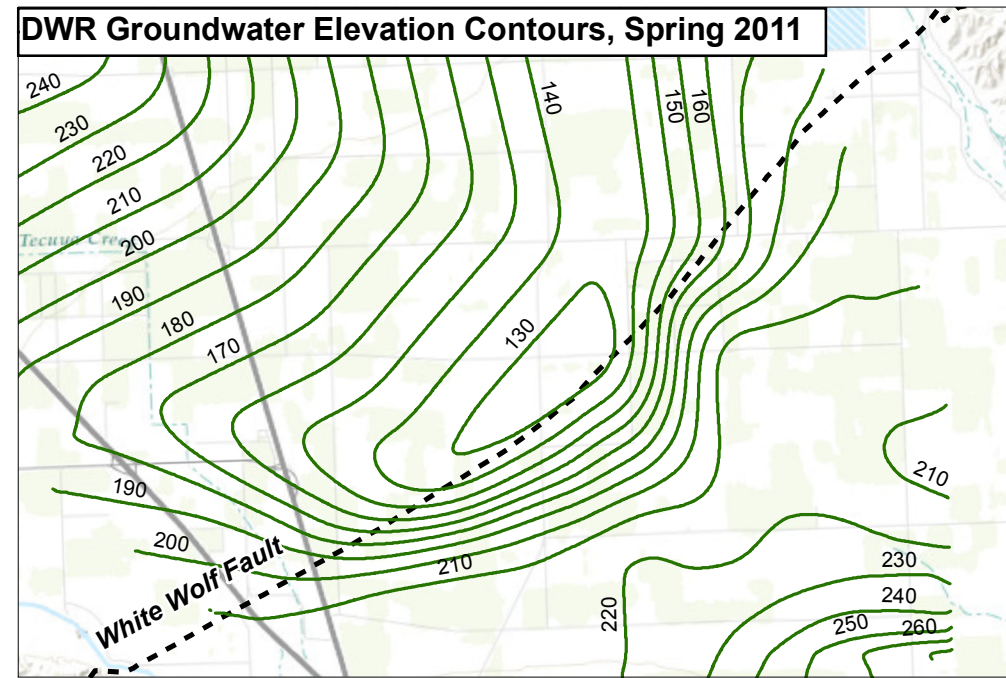
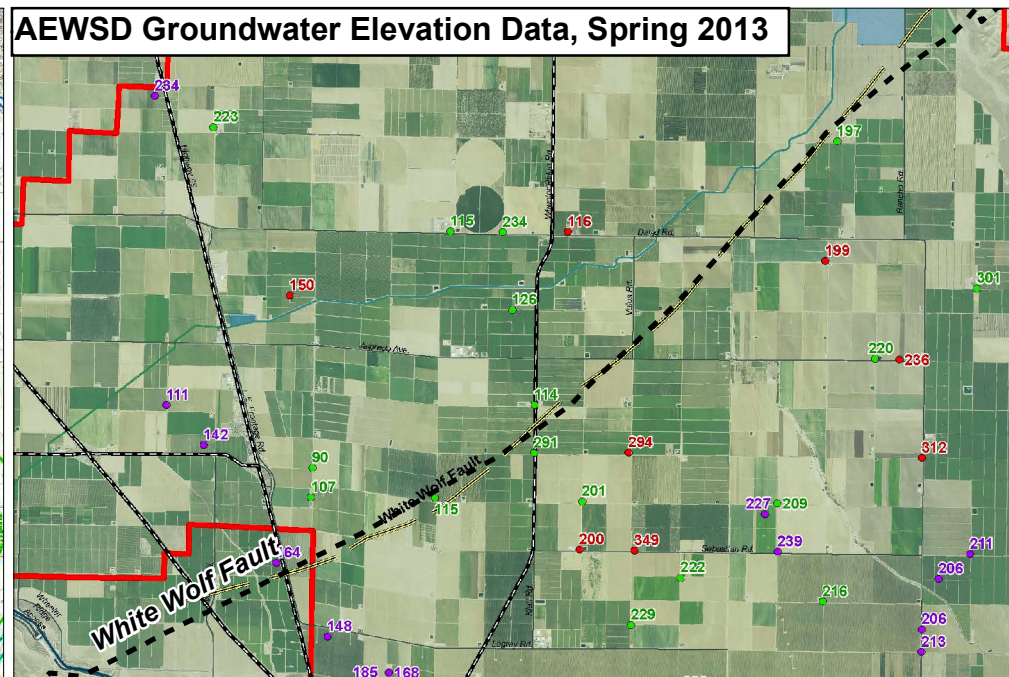
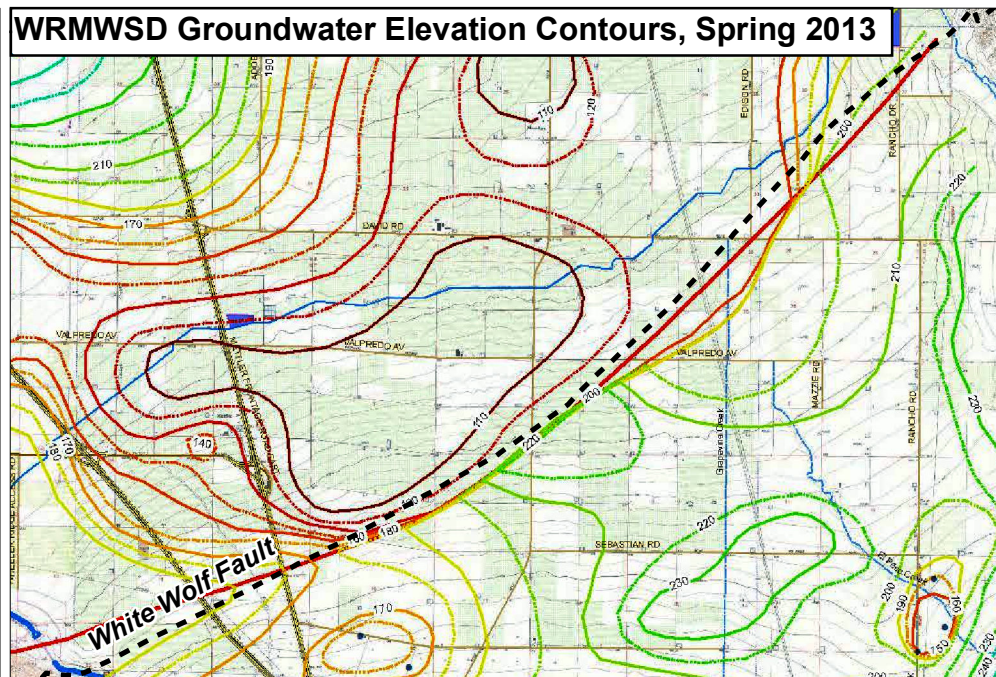
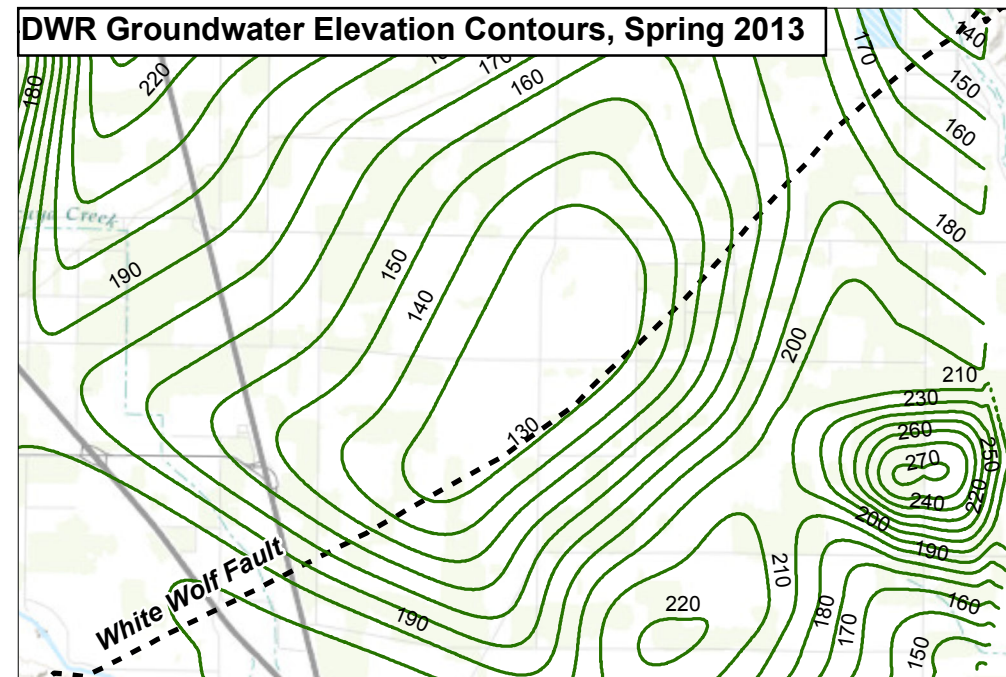
Sources
 1. Groundwater elevation contours obtained from the DWR Groundwater Information Center.
 2. Basemap is ESRI's ArcGIS Online world topographic map.

Erler & Kalinowski, Inc.

Groundwater Elevation Contours Spring 2011

Tejon-Castac Water District
 Kern County, CA
 March 2016
 EKI B50001.00
 Figure 11b

Path: X:\B50001.00\Maps\2016\03\11b_GWEL_Contours_Spring_2011.mxd



Abbreviations

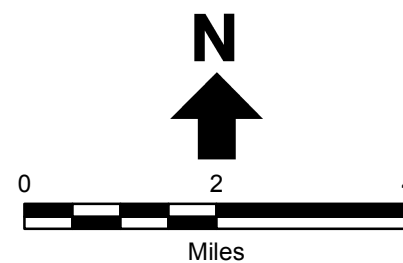
AEWSD = Arvin-Edison Water Storage District
 DWR = California Department of Water Resources
 WRMWS D = Wheeler Ridge-Maricopa Water Storage District

Notes

1. Groundwater elevations are presented in feet above mean sea level.
2. All locations are approximate.

Sources

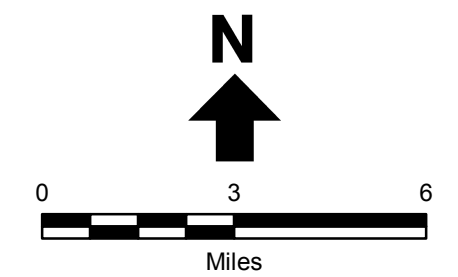
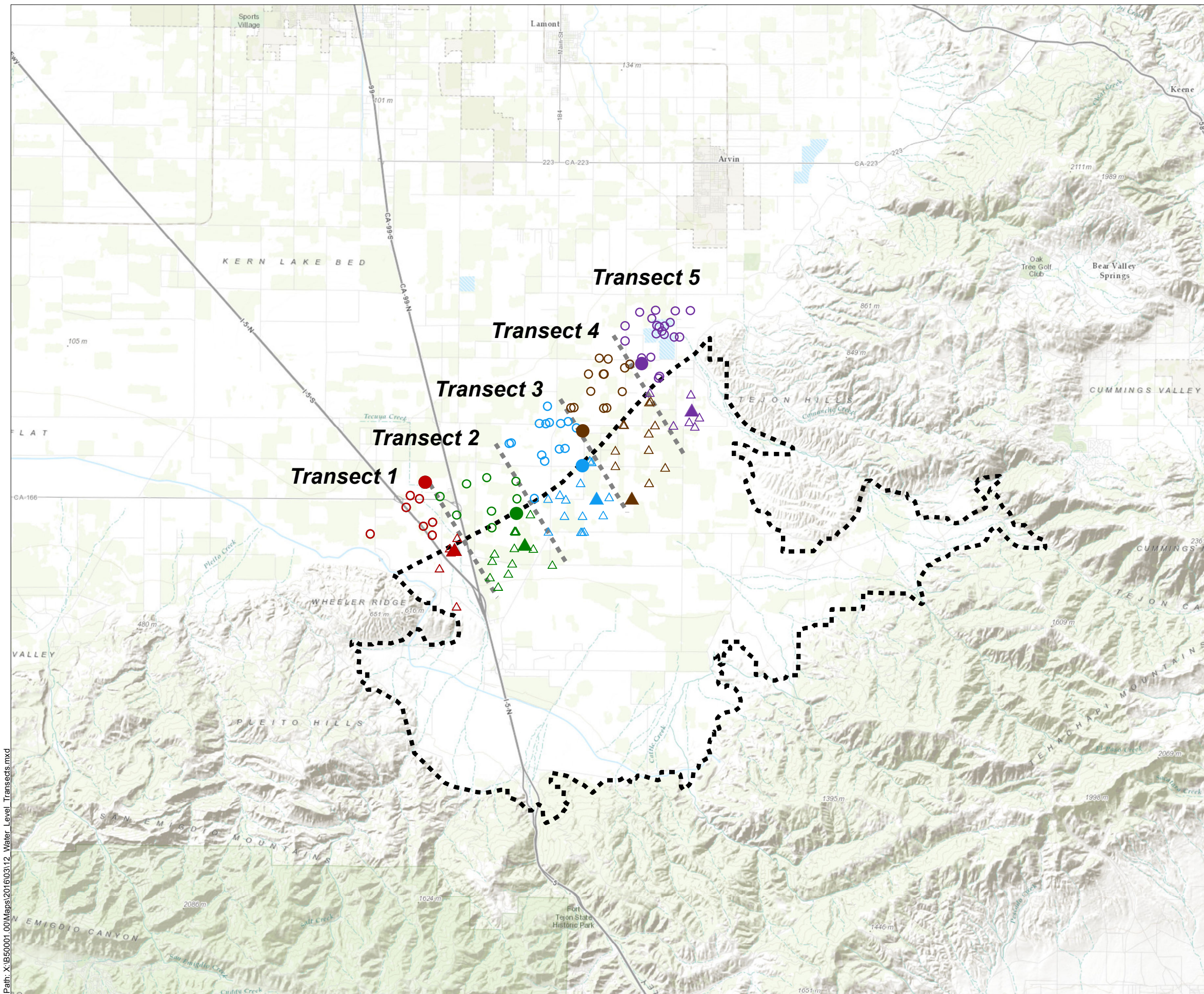
1. DWR groundwater elevation contours obtained from the DWR Groundwater Information Center.
2. WRMWS D groundwater elevation contours obtained from WRMWS D on 10 December 2015.
3. AEWSD groundwater elevation data obtained from AEWSD on 28 December 2015.
4. White Wolf Fault from: Wood and Dale, 1964. Wood P.R. and R.H. Dale, Geology and Ground-Water Features of the Edison-Maricopa Area, Kern County, California, USGS Water Supply Paper 1656, 1964.
4. Basemap is ESRI's ArcGIS Online world topographic map.



**Erler &
 Kalinowski, Inc.**

Groundwater Elevation Countours and Data
 Spring 2013 and Spring 2011

Tejon-Castac Water District
 Kern County, CA
 March 2016
 EKI B50001.00
 Figure 11c



Legend

- Proposed White Wolf Subbasin
 - Water Level Transects
- | Marker Symbology | | Color Symbology | |
|------------------|----------------------|-----------------|------------|
| | White Wolf Subbasin | | Transect 1 |
| | Kern County Subbasin | | Transect 2 |
| | White Wolf Subbasin | | Transect 3 |
| | Kern County Subbasin | | Transect 4 |
| | White Wolf Subbasin | | Transect 5 |
| | Kern County Subbasin | | |

Abbreviations

DWR = California Department of Water Resources

Notes

1. Hydrographs were created for five transects along the proposed White Wolf Subbasin boundary. Transects are 2.4 miles wide and water level data were used for wells located within two miles of the boundary.
2. Well pairs for each transect were selected based on proximity to the proposed White Wolf Subbasin boundary and data continuity.
3. State Wells 11N19W07H002S, 12N19W33R001S, and 11N19W07P001S are located less than 0.07 miles south of the proposed boundary, but exhibit water level behavior characteristic of Kern County wells. Due to the southeast dip of the fault, these wells are likely north of the fault; thus they are classified as Kern County wells in the transect hydrographs.
4. State Well 11N20W13G001S is located 0.15 miles north of the proposed boundary, but exhibits water level behavior characteristic of White Wolf Subarea wells. It is classified as a White Wolf Subarea well in the transect hydrographs.
5. All locations are approximate.

Sources

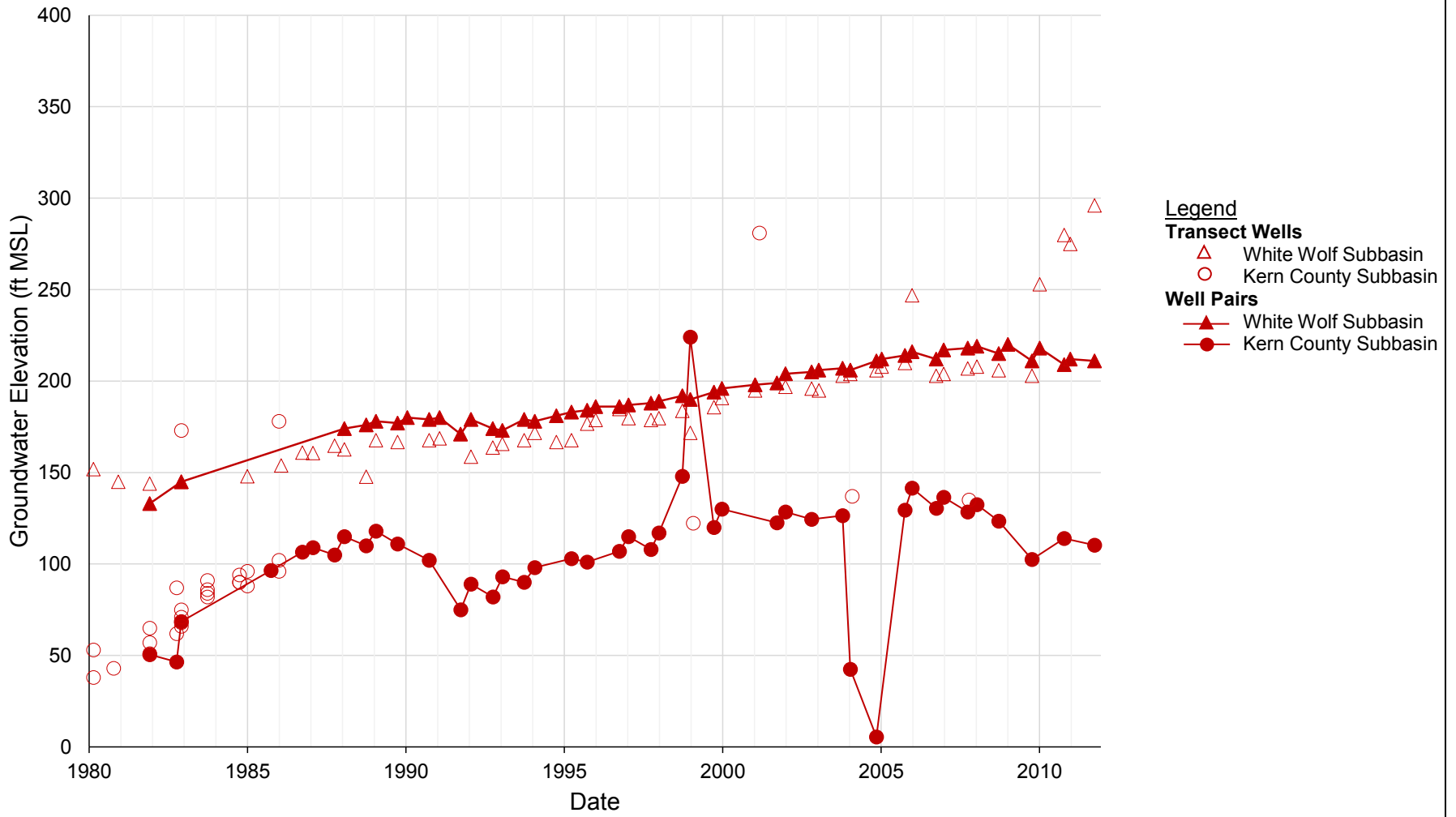
1. Groundwater wells selected from wells contained in the DWR Water Data Library.
2. Basemap is ESRI's ArcGIS Online world topographic map.

**Erler &
Kalinowski, Inc.**

Water Level Transects for Hydrographs

Tejon-Castac Water District
Kern County, CA
March 2016
EKI B50001.00
Figure 12

Path: X:\B50001.00\Maps\2016\03\12 Water Level Transects.mxd



Abbreviations

DWR = California Department of Water Resources
 ft MSL = feet above mean sea level

Notes

1. Transect 1 is 2.4 miles wide and water level data were used for wells located within two miles of the boundary. See Figure 11 for transect and well locations.
2. Well Pair 1 wells are located 2.22 miles apart.
3. State Well 11N20W13G001S is located less than 0.15 miles north of the proposed boundary, but exhibits water level behavior characteristic of White Wolf Subbasin wells. It is classified as a White Wolf Subbasin well in the transect well hydrographs.

Sources

1. Groundwater wells selected from wells contained in the DWR Water Data Library.

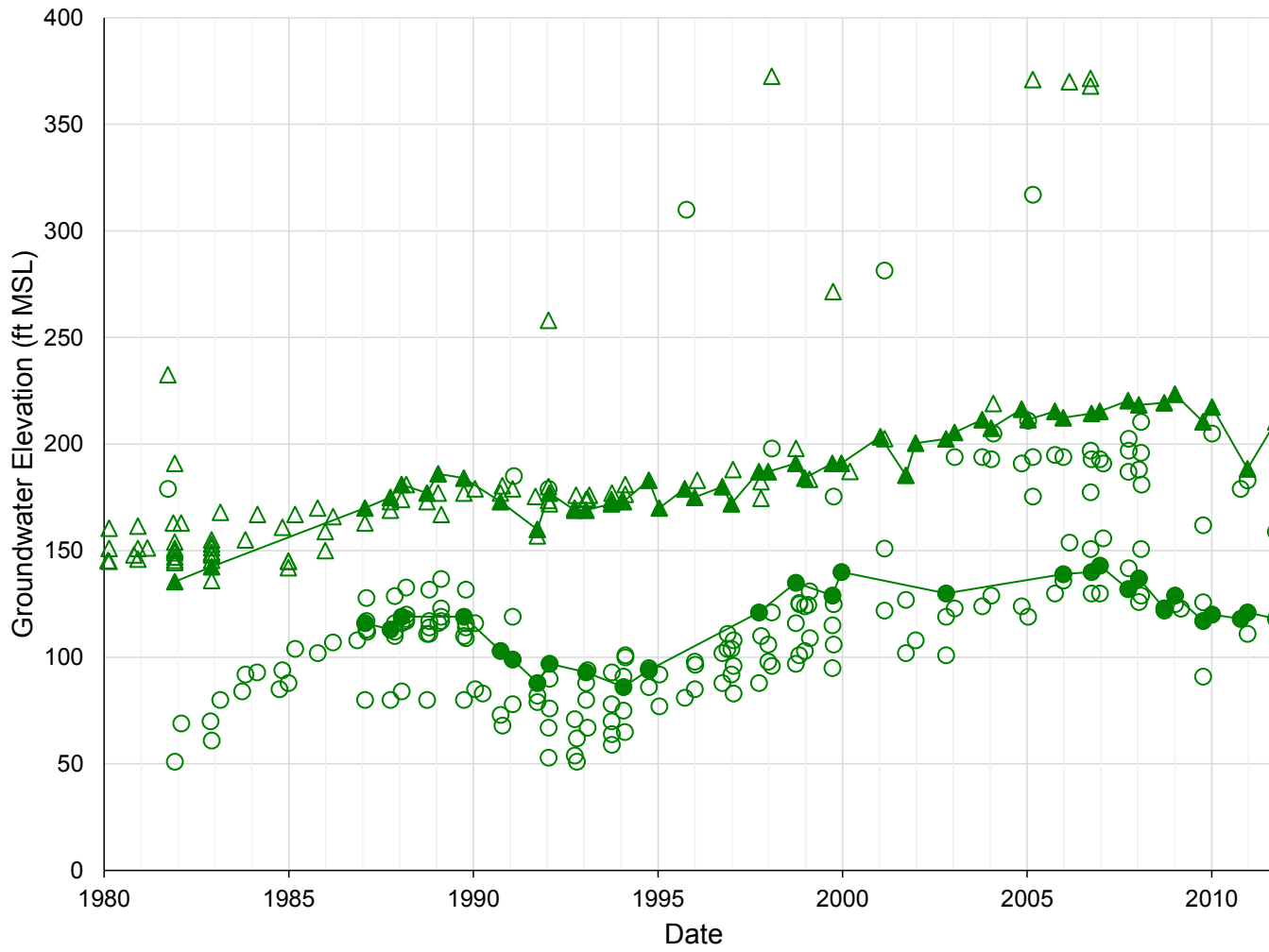
**Erler &
Kalinowski, Inc.**

Transect 1 and Well Pair 1 Hydrographs

Tejon-Castac Water District
Kern County, CA

March 2016
EKI B50001.00

Figure 13a



Legend
Transect Wells
 △ White Wolf Subbasin
 ○ Kern County Subbasin
Well Pairs
 ▲ White Wolf Subbasin
 ● Kern County Subbasin

Abbreviations

DWR = California Department of Water Resources
 ft MSL = feet above mean sea level

Notes

1. Transect 2 is 2.4 miles wide and water level data were used for wells located within two miles of the boundary. See Figure 11 for transect and well locations.
2. Well Pair 2 wells are located 0.97 miles apart.
3. State Wells 11N19W07H002S and 11N19W07P001S are located less than 0.07 miles south of the proposed boundary, but exhibit water level behavior characteristic of Kern County Subbasin wells. They are classified as Kern County Subbasin wells in the transect well hydrographs.

Sources

1. Groundwater wells selected from wells contained in the DWR Water Data Library.

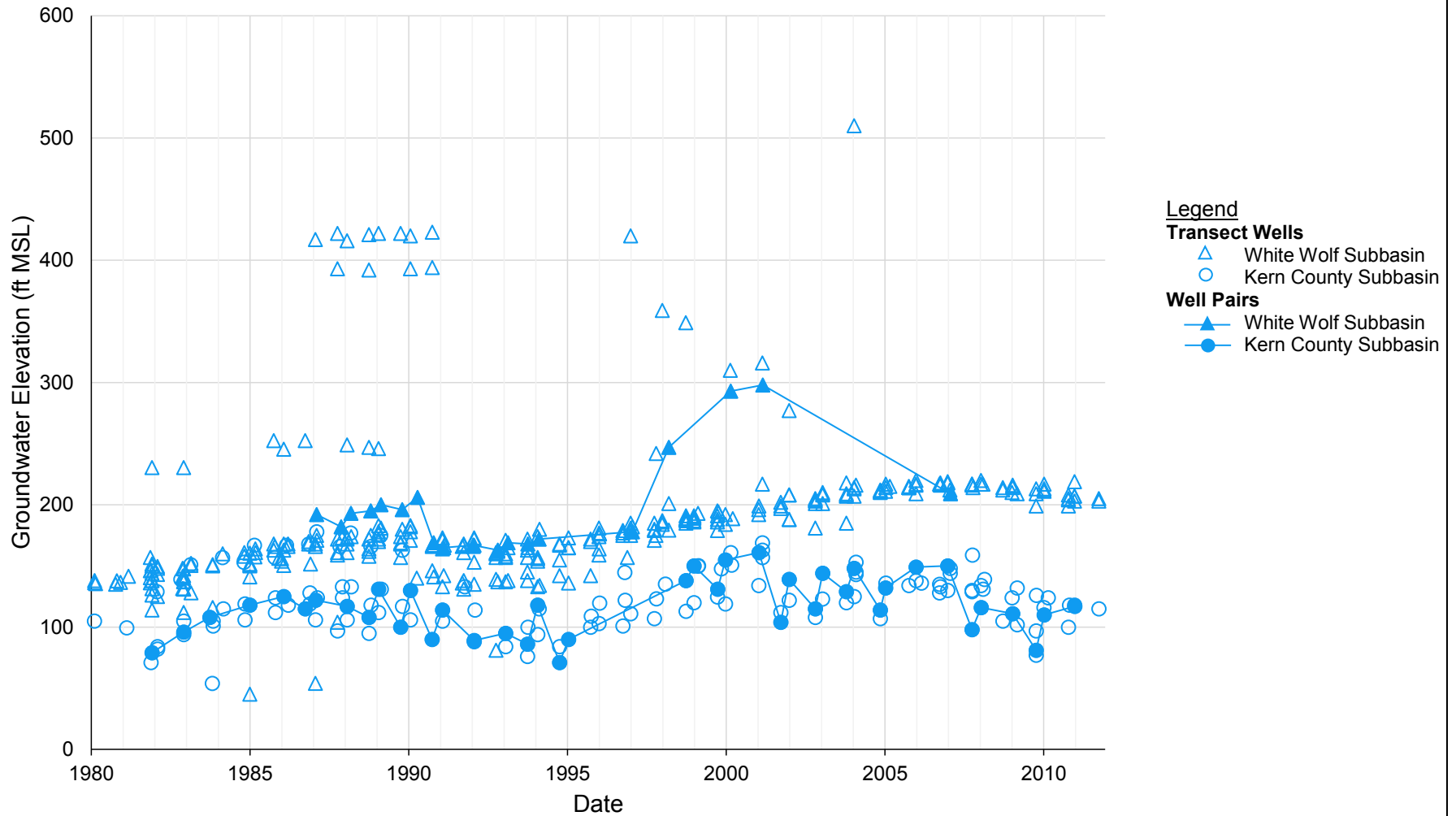
**Erler &
 Kalinowski, Inc.**

Transect 2 and Well Pair 2 Hydrographs

Tejon-Castac Water District
 Kern County, CA

March 2016
 EKI B50001.00

Figure 13b



Abbreviations

DWR = California Department of Water Resources
 ft MSL = feet above mean sea level

Notes

1. Transect 3 is 2.4 miles wide and water level data were used for wells located within two miles of the boundary. See Figure 11 for transect and well locations.
2. Well Pair 3 wells are located 0.99 miles apart.
3. State Well 11N19W33R001S is located less than 0.08 miles south of the proposed boundary, but exhibits water level behavior characteristic of Kern County Subbasin wells. It is classified as a Kern County Subbasin well in the transect well hydrographs.

Sources

1. Groundwater wells selected from wells contained in the DWR Water Data Library.

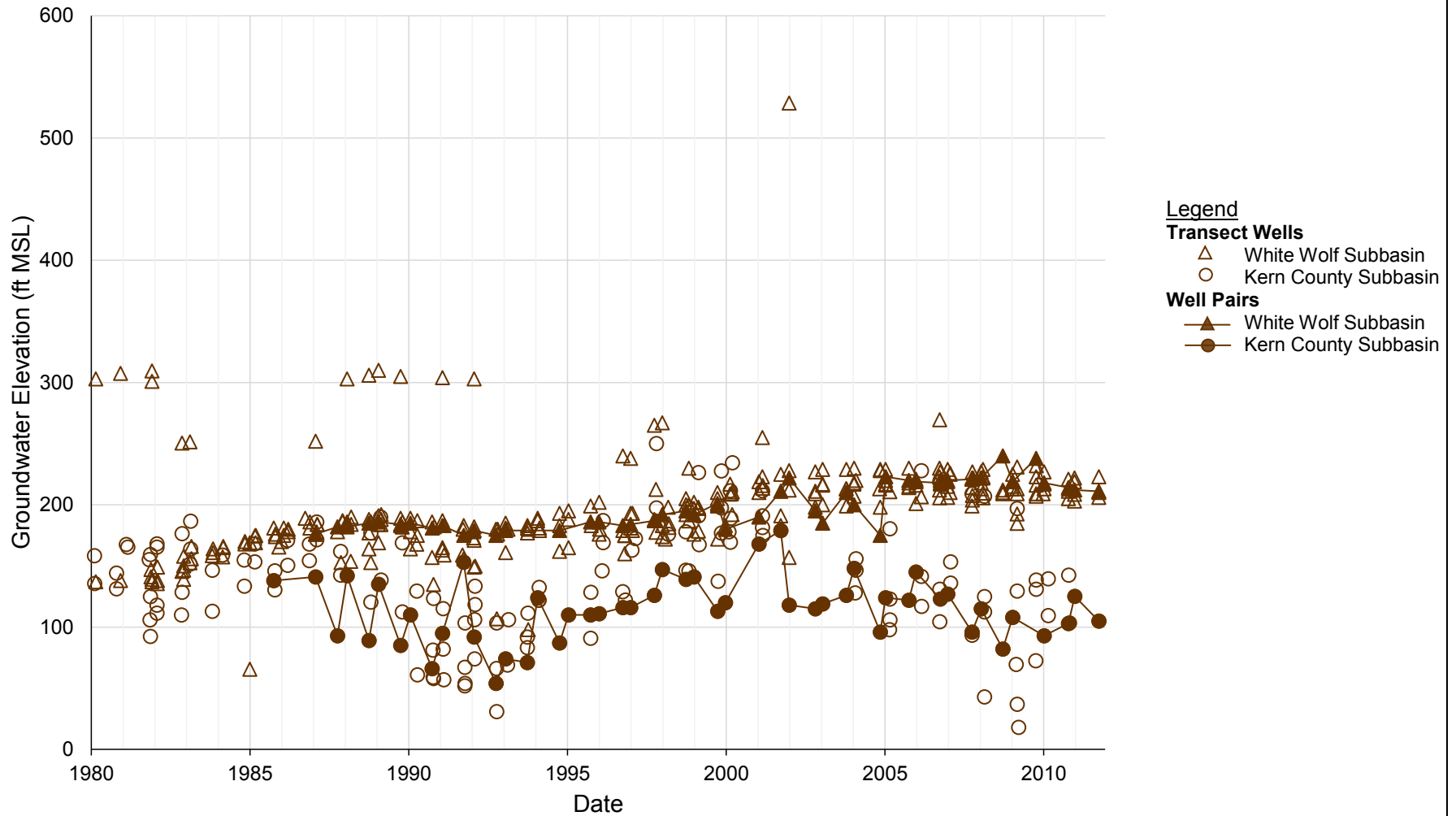
**Erlar &
 Kalinowski, Inc.**

Transect 3 and Well Pair 3 Hydrographs

Tejon-Castac Water District
 Kern County, CA

March 2016
 EKI B50001.00

Figure 13c



Abbreviations

DWR = California Department of Water Resources
 ft MSL = feet above mean sea level

Notes

1. Transect 4 is 2.4 miles wide and water level data were used for wells located within two miles of the boundary. See Figure 11 for transect and well locations.
2. Well Pair 4 wells are located 2.52 miles apart.

Sources

1. Groundwater wells selected from wells contained in the DWR Water Data Library.

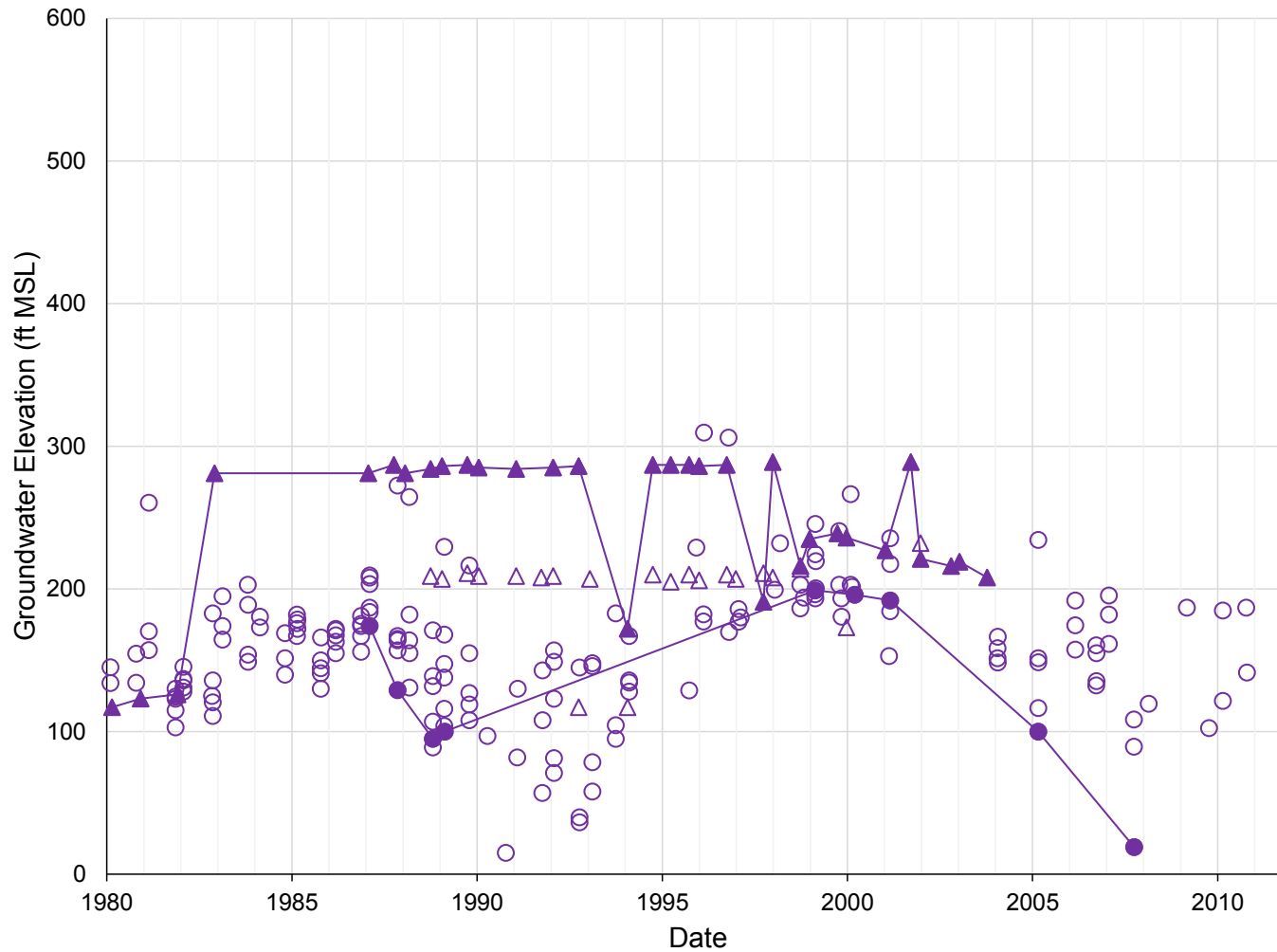
**Erler &
 Kalinowski, Inc.**

Transect 4 and Well Pair 4 Hydrographs

Tejon-Castac Water District
 Kern County, CA

March 2016
 EKI B50001.00

Figure 13d



Legend

Transect Wells

- △ White Wolf Subbasin
- Kern County Subbasin

Well Pairs

- ▲ White Wolf Subbasin
- Kern County Subbasin

Abbreviations

DWR = California Department of Water Resources
 ft MSL = feet above mean sea level

Notes

1. Transect 5 is 2.4 miles wide and water level data were used for wells located within two miles of the boundary. See Figure 11 for transect and well locations.
2. Well Pair 5 wells are located 2.52 miles apart.

Sources

1. Groundwater wells selected from wells contained in the DWR Water Data Library.

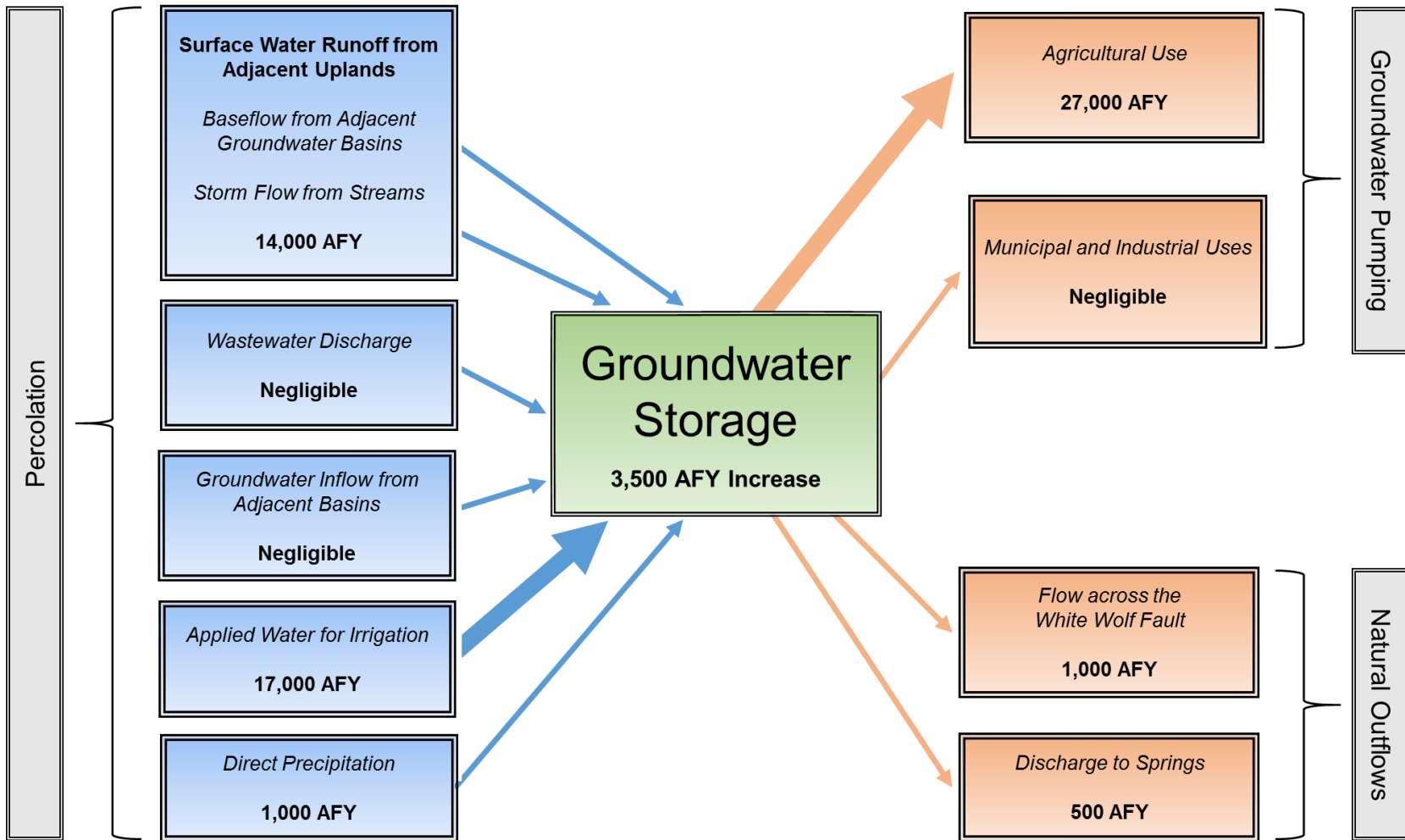
**Erler &
 Kalinowski, Inc.**

Transect 5 and Well Pair 5 Hydrographs

Tejon-Castac Water District
 Kern County, CA

March 2016
 EK1 B50001.00

Figure 13e



**Erler &
Kalinowski, Inc.**

Abbreviations

AFY = acre-feet per year

Notes

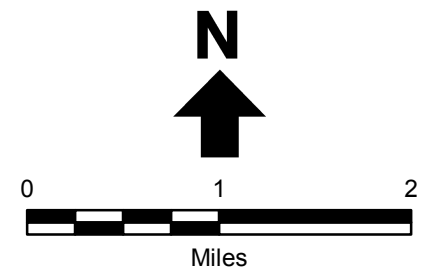
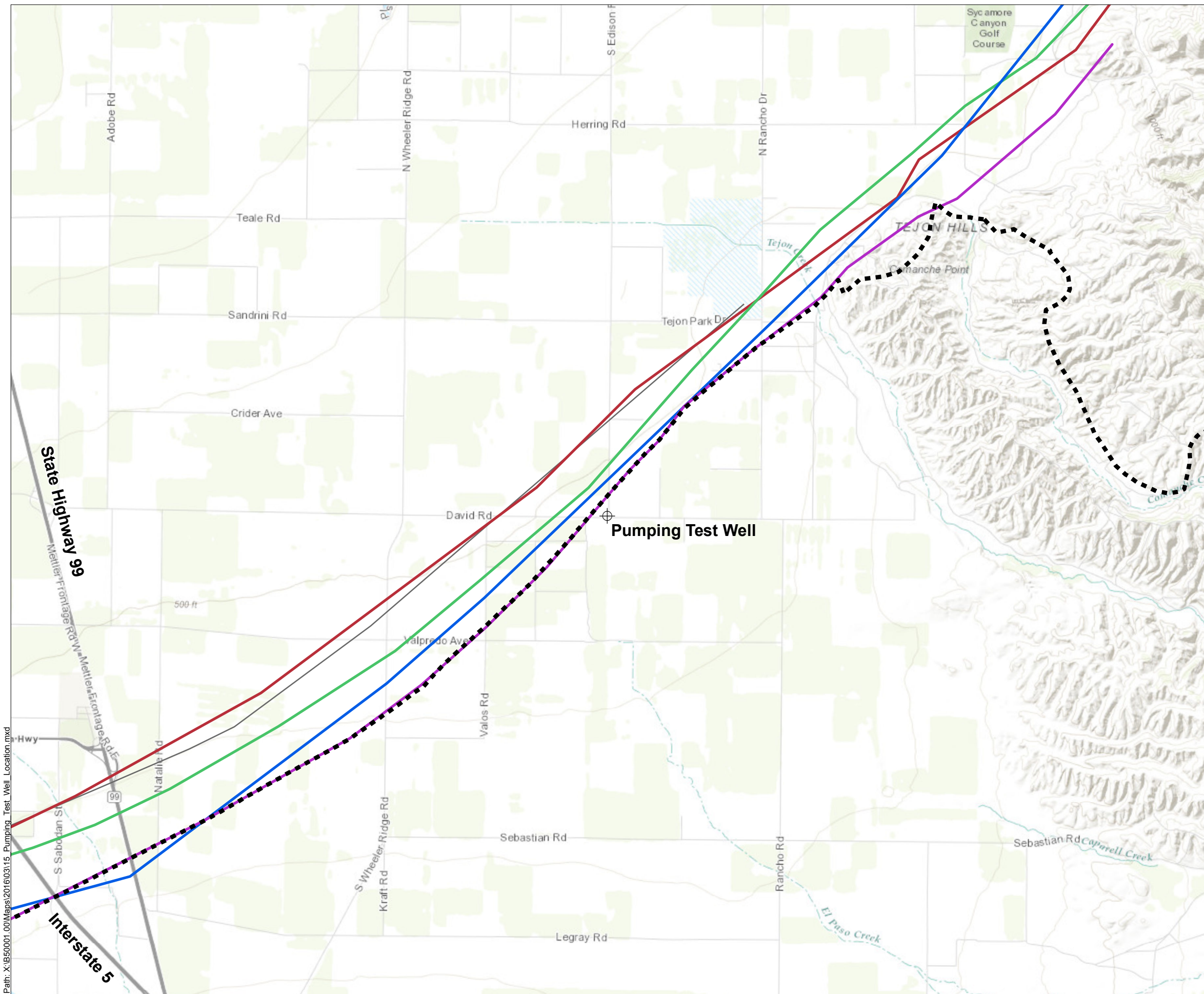
1. Numerical values obtained from water balance analysis discussed in Section 5.

Water Balance Schematic

Tejon-Castac Water District
Kern County, CA

March 2016
EKI B50001.00

Figure 14



Legend

- ⊕ Pumping Test Well
- ⬛ Proposed White Wolf Subbasin
- White Wolf Fault Traces**
- DWR, 2010
- Lofgren, 1975
- Ross et al., 1986
- Wood and Dale, 1964 (USGS)

Abbreviations

- DWR = California Department of Water Resources
- USGS = United States Geological Survey

Notes

1. The colored fault traces were deemed to be of potentially higher accuracy based on the scale and spatial resolution of the source and the confidence in georeferencing.
2. Full citations for sources used for all traces are provided in Section 8.
3. All locations are approximate.

Sources

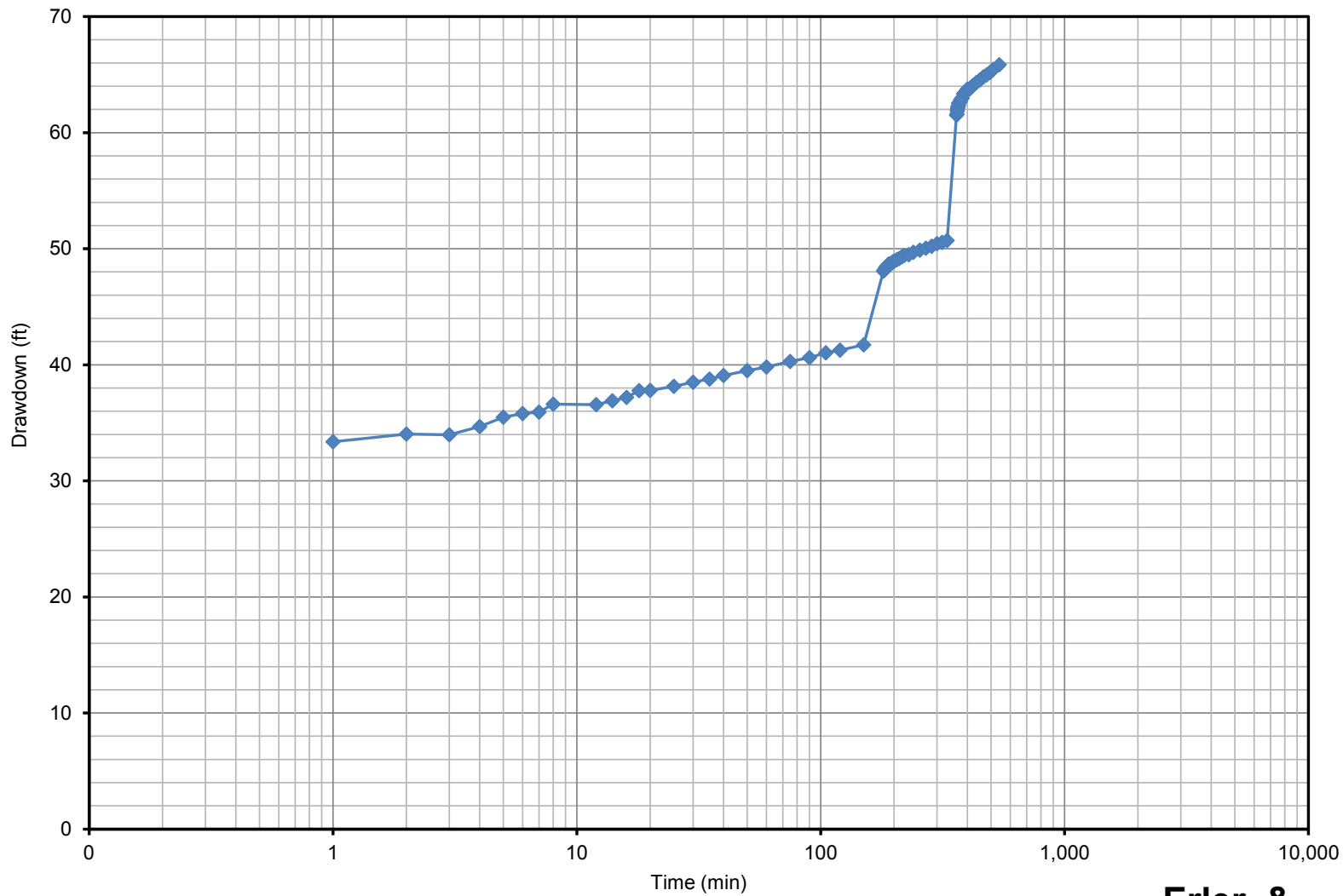
1. Basemap is ESRI's ArcGIS Online world topographic map.

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Location of Pumping Test Well
in Relation to White Wolf Fault

Tejon-Castac Water District
Kern County, CA
March 2016
EKI B50001.00
Figure 15

Path: X:\B50001.00\Maps\2016\03\15_Pumping_Test_Well_Location.mxd



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Hydrograph from February 2016
Step-Drawdown Pumping Test

Tejon-Castac Water District
Kern County, CA

March 2016
EKI B50001.00

Figure 16a

Abbreviations

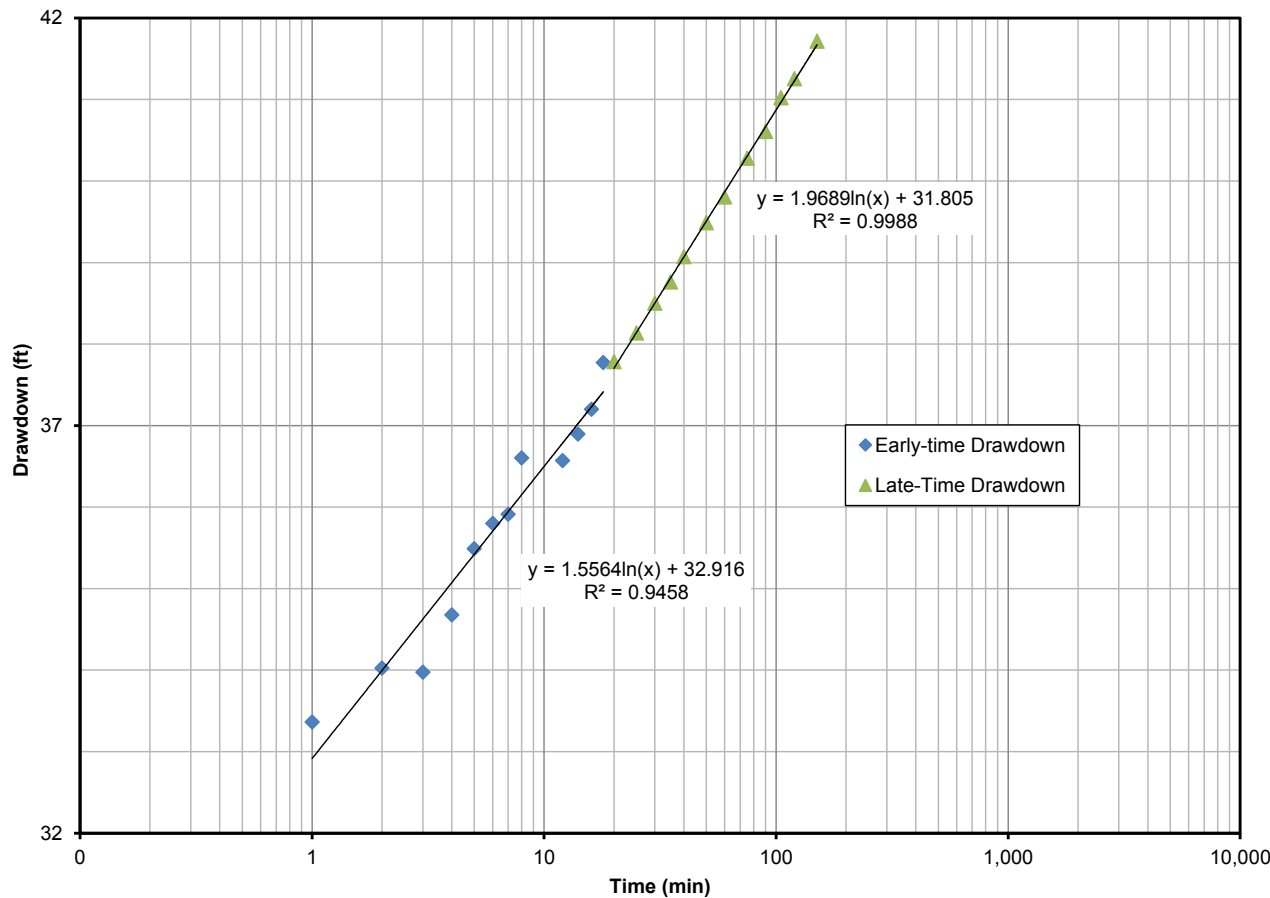
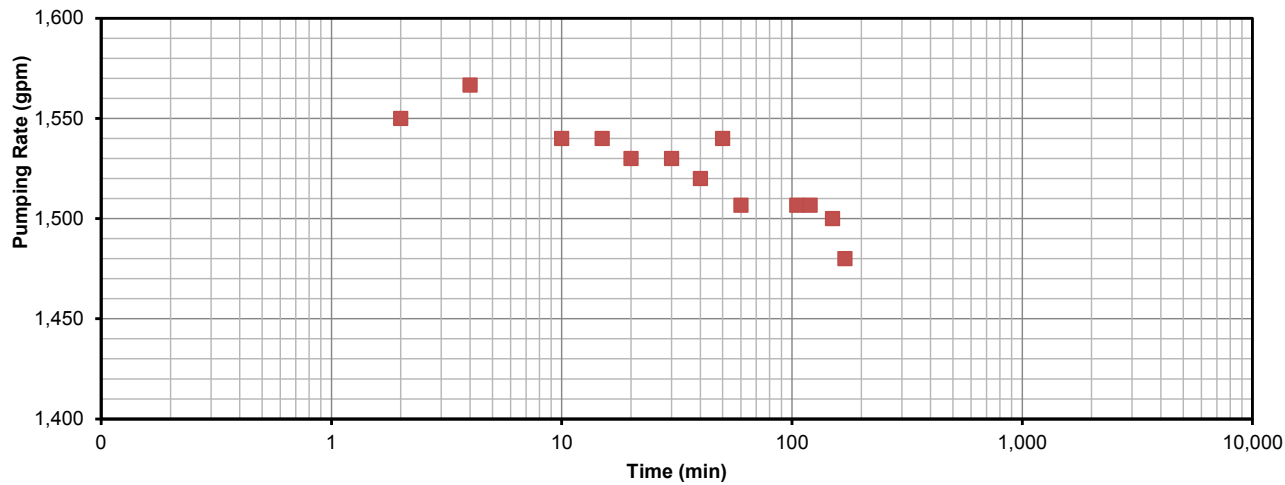
ft = feet

gpm = gallons per minute

min = minutes

Notes

1. Drawdown values are corrected for the recovery trend occurring from pumping the day before the test.



Abbreviations

ft = feet
 gpm = gallons per minute
 min = minutes

Notes

1. Time values are rescaled to the start of the pumping rate step.
2. Drawdown values are corrected for the recovery trend occurring from pumping the day before the test.

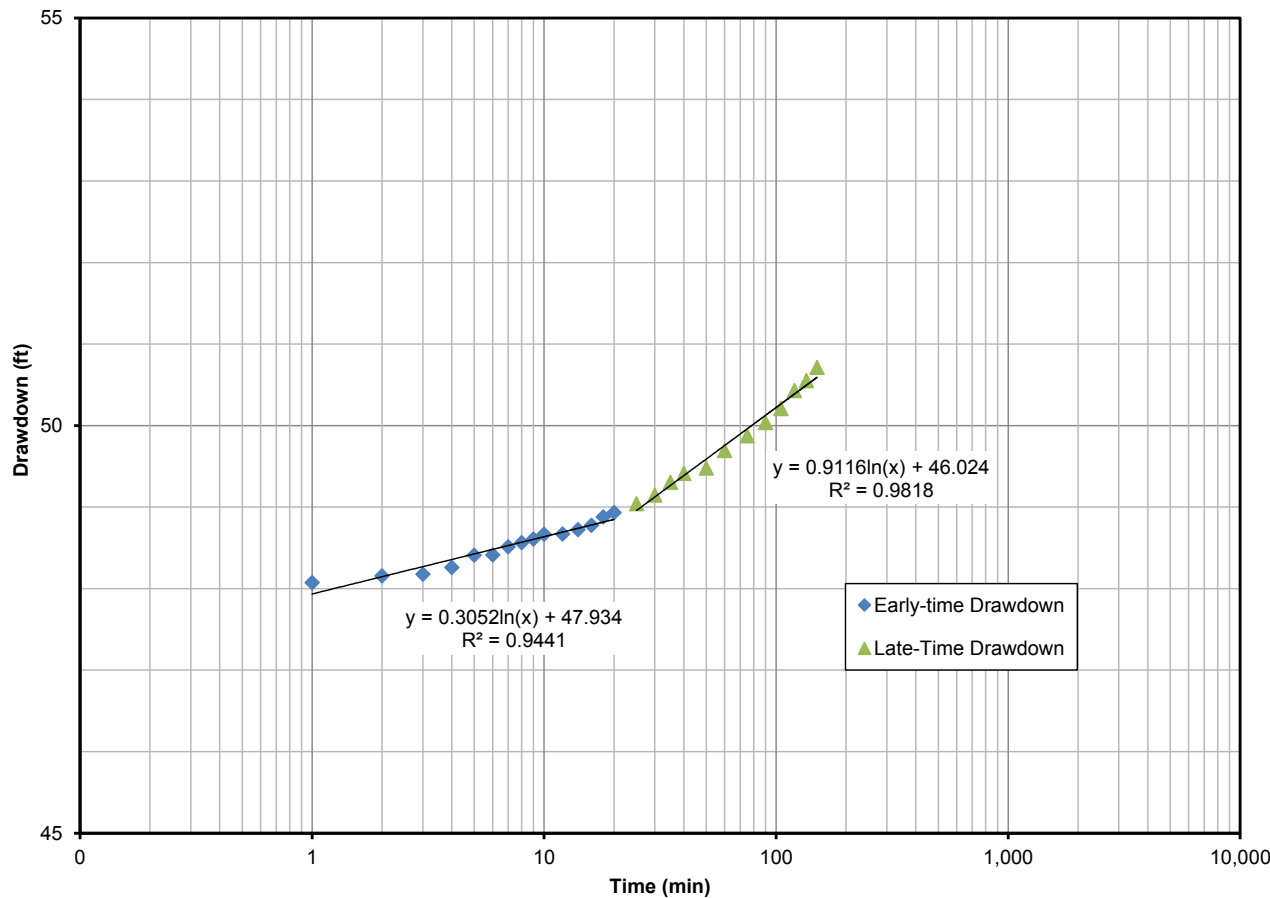
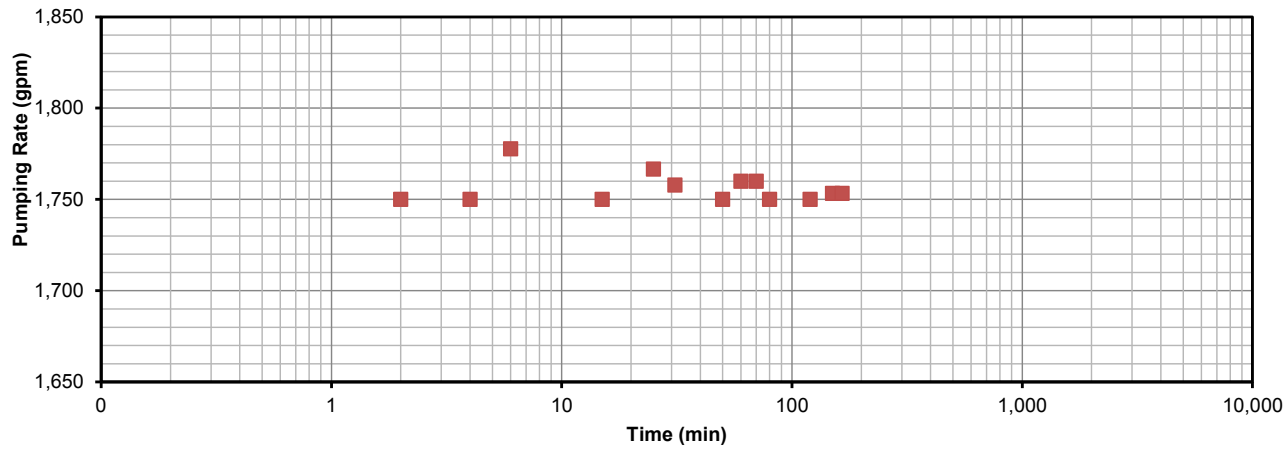
Erler & Kalinowski, Inc.

Hydrograph of Step 1 from February 2016
 Step-Drawdown Pumping Test

Tejon-Castac Water District
 Kern County, CA

March 2016
 EKI B50001.00

Figure 16b



Abbreviations

- ft = feet
- gpm = gallons per minute
- min = minutes

Notes

1. Time values are rescaled to the start of the pumping rate step.
2. Drawdown values are corrected for the recovery trend occurring from pumping the day before the test.

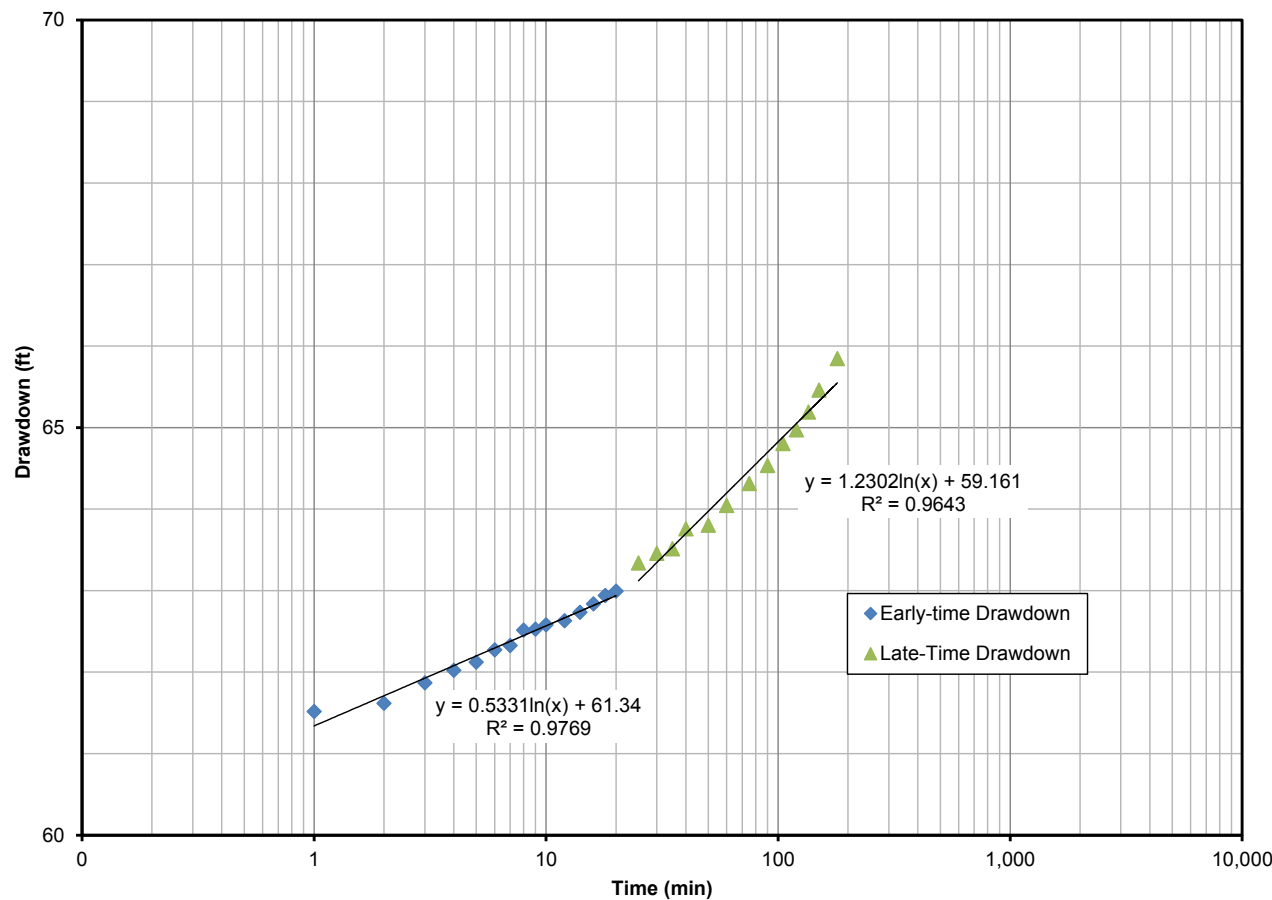
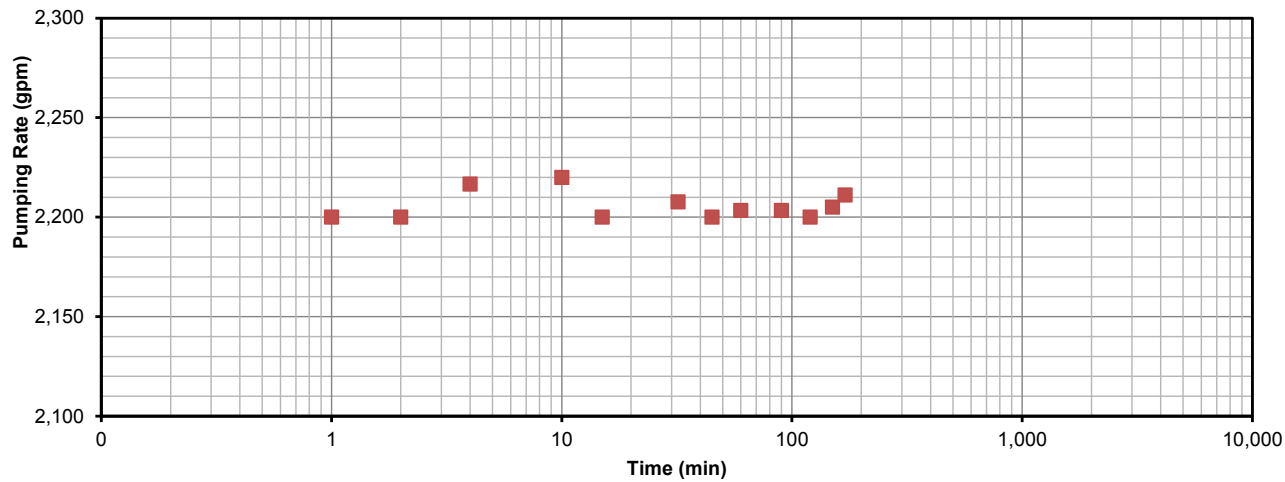
Erler & Kalinowski, Inc.

Hydrograph of Step 2 from February 2016
Step-Drawdown Pumping Test

Tejon-Castac Water District
Kern County, CA

March 2016
EKI B50001.00

Figure 16c



Abbreviations

ft = feet
 gpm = gallons per minute
 min = minutes

Notes

1. Time values are rescaled to the start of the pumping rate step.
2. Drawdown values are corrected for the recovery trend occurring from pumping the day before the test.

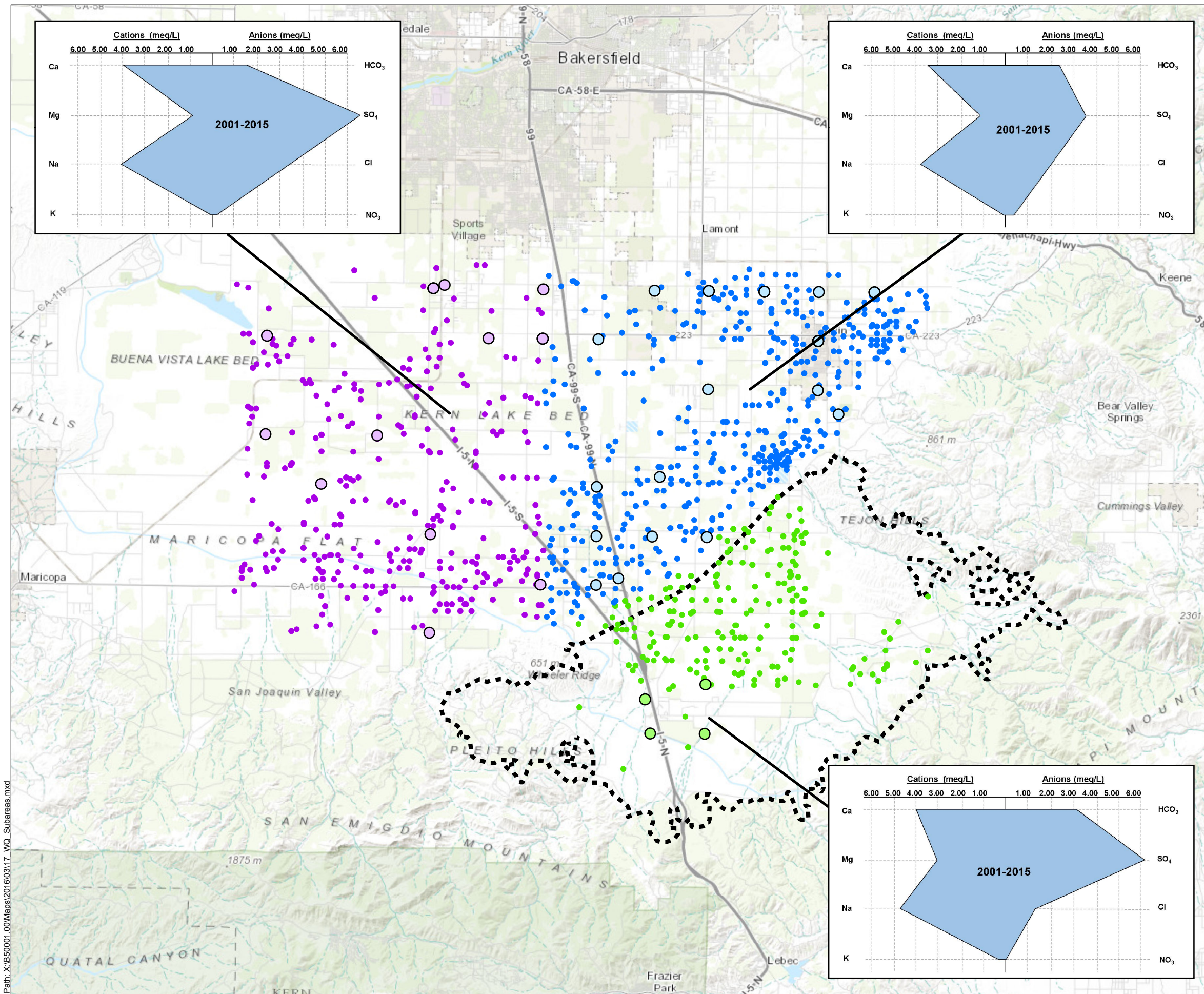
Erler & Kalinowski, Inc.

Hydrograph of Step 3 from February 2016
 Step-Drawdown Pumping Test

Tejon-Castac Water District
 Kern County, CA

March 2016
 EKI B50001.00

Figure 16d



Legend

- ▬ Proposed White Wolf Subbasin
- All Wells with Historical Groundwater Quality Data**
 - North of Fault, West
 - North of Fault, East
 - White Wolf Subbasin
- Wells Used for Water Quality Analysis**
 - North of Fault, East
 - North of Fault, West
 - White Wolf Subbasin

Abbreviations

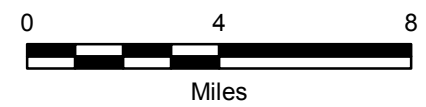
GAMA = Groundwater Ambient Monitoring and Assessment Program

Notes

1. Wells selected for water quality analysis contained at least one data point for major cations and anions over the period 2010-2015.
- 2.. All locations are approximate.

Sources

1. Groundwater quality data from California State Water Resources Control Board's GeoTracker GAMA database.
2. Basemap is ESRI's ArcGIS Online world topographic map.

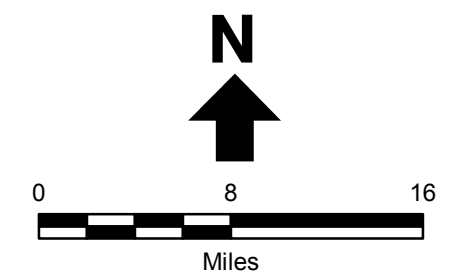
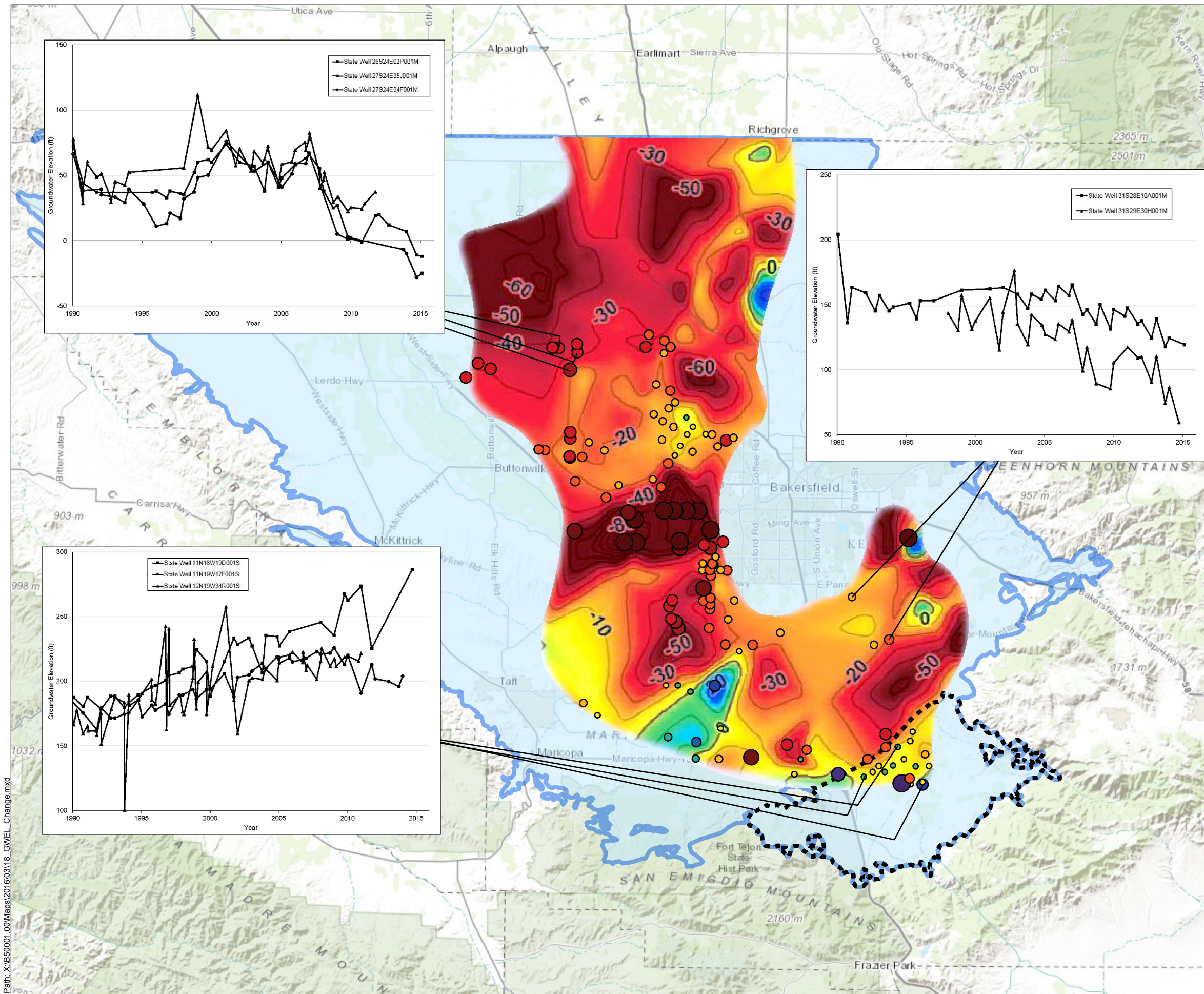


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Water Quality Subareas and Stiff Diagrams

Tejon-Castac Water District
Kern County, CA
March 2016
EKI B50001.00

Figure 17



Legend

- Proposed White Wolf Subbasin
- Existing DWR Kern County Subbasin

Groundwater Elevation Change, Spring 2005 - Spring 2010

CASGEM Point Data

- > 60 foot decline
- 50 - 60 foot decline
- 40 - 50 foot decline
- 30 - 40 foot decline
- 20 - 30 foot decline
- 10 - 20 foot decline
- 0 - 10 foot decline
- 0 - 10 foot increase
- 10 - 20 foot increase
- 20 - 30 foot increase
- 30 - 40 foot increase
- 40 - 50 foot increase
- 50 - 60 foot increase
- > 60 foot increase

DWR Contours

- 60 or more
- 50
- 40
- 30
- 20
- 10
- 0
- 10
- 20
- 30
- 40
- 50
- 60 or more

◀ No change

Abbreviations
 CASGEM = California Statewide Groundwater Elevation Monitoring
 DWR = California Department of Water Resources

- Notes**
- CASGEM point data was selected for wells with reported groundwater elevations between 1 January and 1 June for both 2005 and 2010.
 - All locations are approximate.

- Sources**
- Groundwater elevation change point and hydrograph data from the CASGEM Public Portal.
 - Groundwater elevation change contours from DWR, California's Groundwater Update 2013 (2013).
 - Basemap is ESRI's ArcGIS Online world topographic map.

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Groundwater Elevation Change
 Spring 2005 - Spring 2015

Tejon-Castac Water District
 Kern County, CA
 March 2016
 EKI B50001.00
 Figure 18

Path: X:\B50001.00\Maps\2016\0318_GWEL_Change.mxd