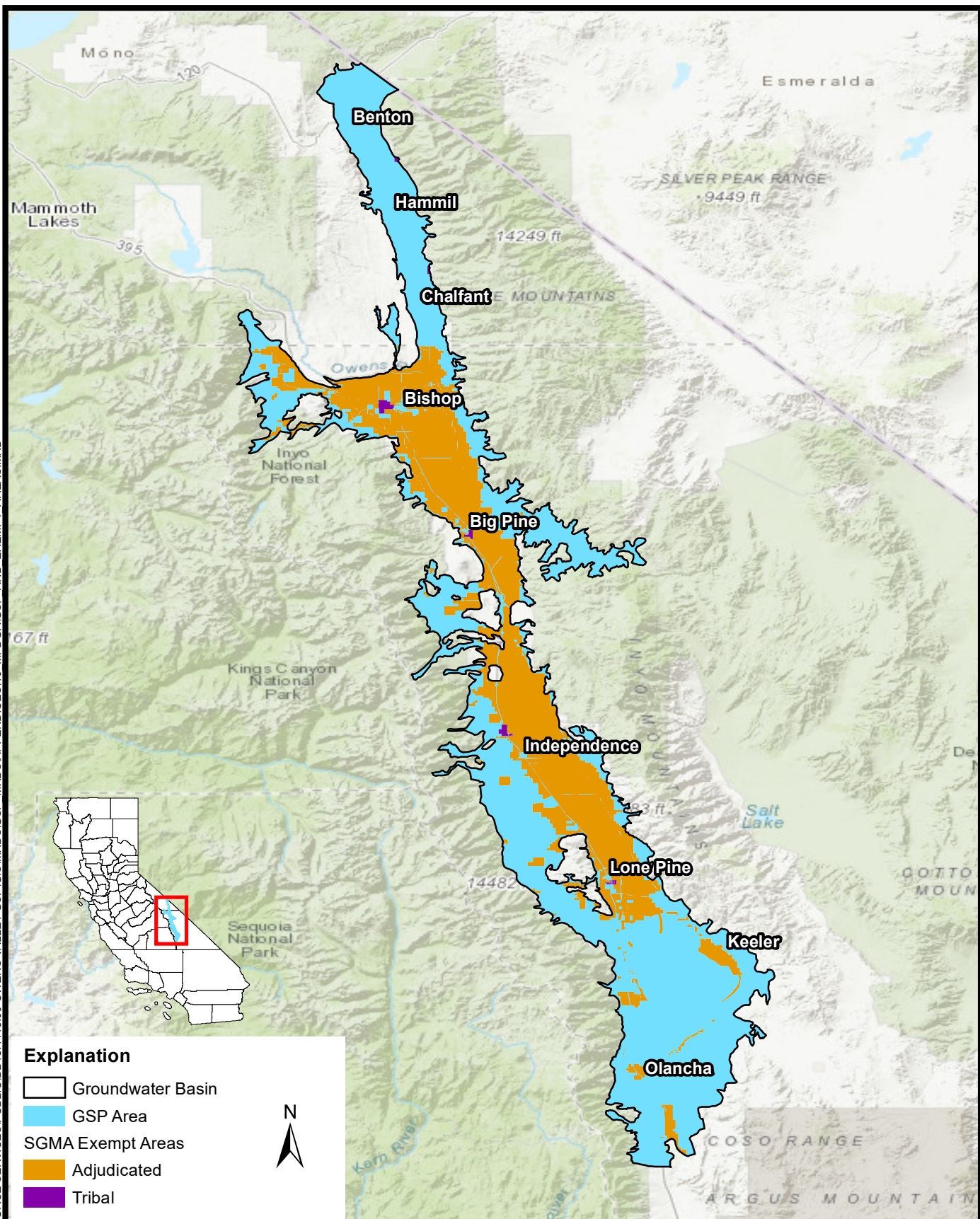
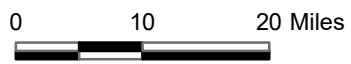


K:\PROJECTS\WATER RESOURCE SERVICES\PUBLIC\DB18.1418.00 OWENS VALLEY GSP\GIS\MXD\SIGSP\_MXD\APPENDICES\10\_MPDGAGSP\_AND\_EXEMPT\_AREAS.MXD



**Explanation**

- Groundwater Basin
- GSP Area
- SGMA Exempt Areas
- Adjudicated
- Tribal



Source: CADWR, January 17, 2020



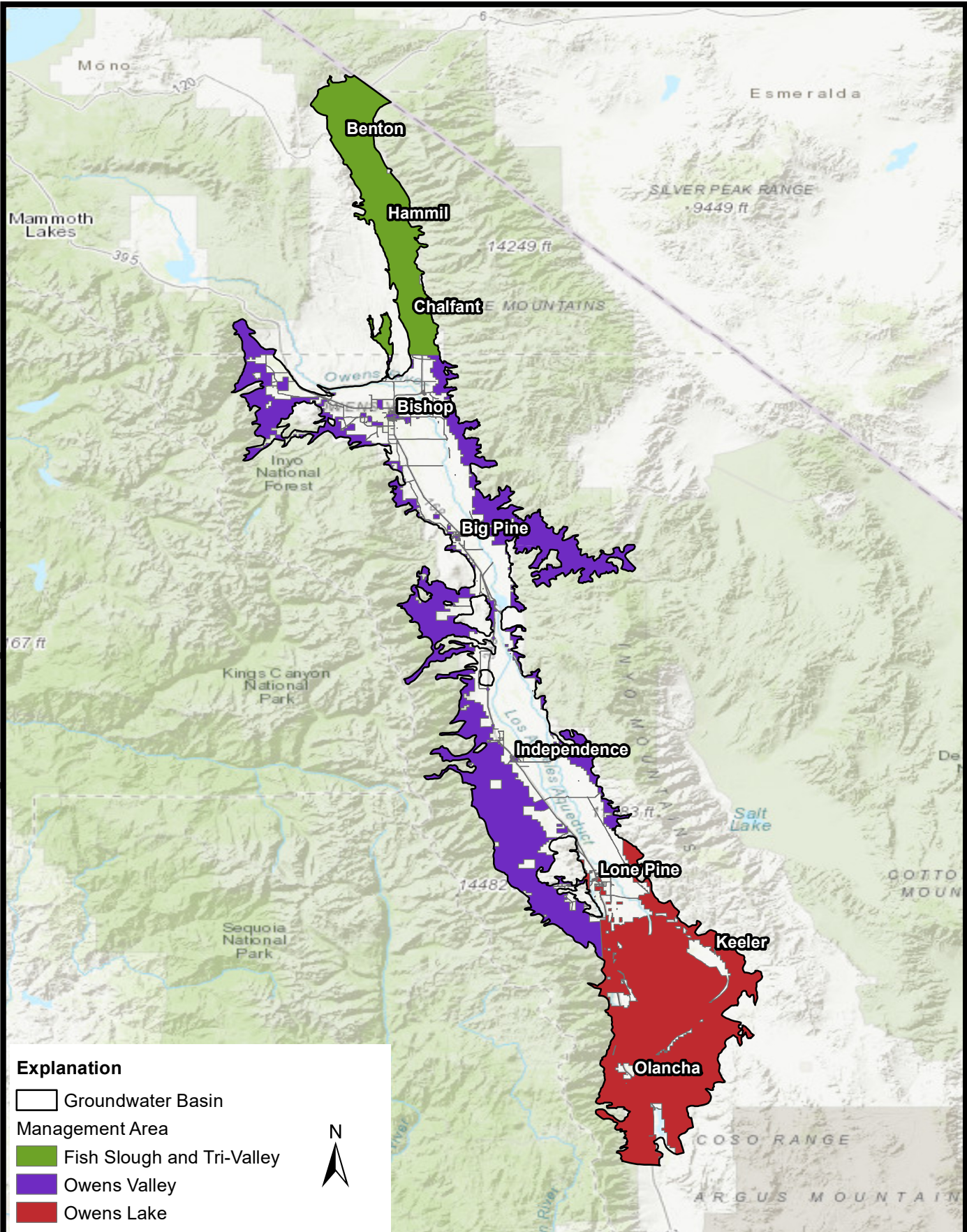
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**MONITORING PLAN AND DATA GAPS ANALYSIS**  
**Groundwater Sustainability Plan Area**  
**and Lands Exempt from SGMA**

Figure 1-1



K:\PROJECTS\WATER RESOURCE SERVICES\PUBLIC\DB18.1418.00 OWENS VALLEY GSP\IGIS\MXD\SIGSP\_MXD\APPENDICES\10\_MPDGAMANAGEMENT\_AREAS.MXD



**Explanation**

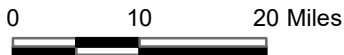
Groundwater Basin

Management Area

Fish Slough and Tri-Valley

Owens Valley

Owens Lake



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DB18.1418

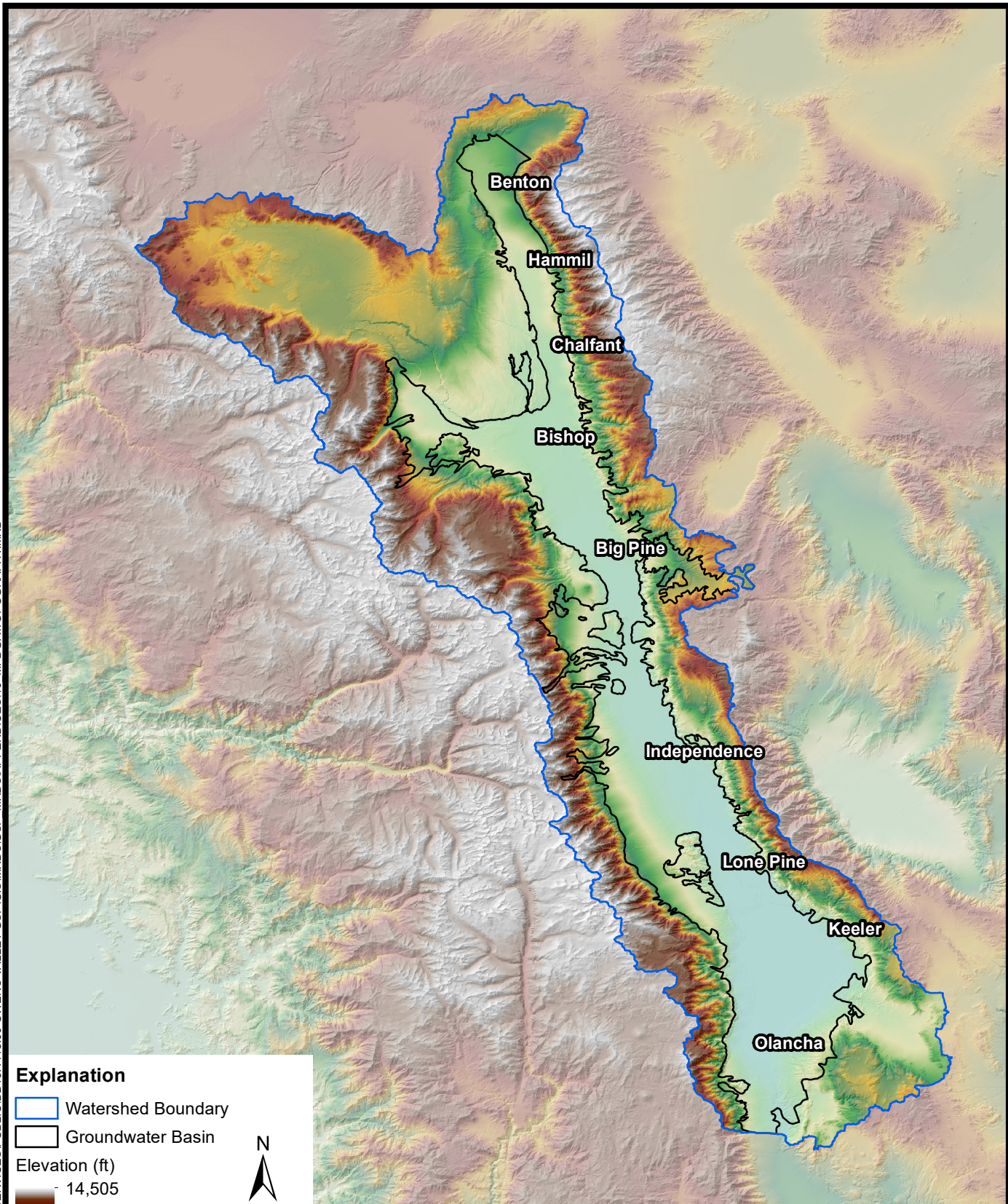
MONITORING PLAN AND DATA GAPS ANALYSIS

**GSP Management Areas**



Figure 1-2




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**Explanation**

-  Watershed Boundary
-  Groundwater Basin

Elevation (ft)  
  
 - 14,505  
 - 3,529



0 10 20 Miles  


Source: USGS National Elevation Dataset March 3, 2020

Notes:  
 1. Watershed boundary modified to include entire groundwater basin.



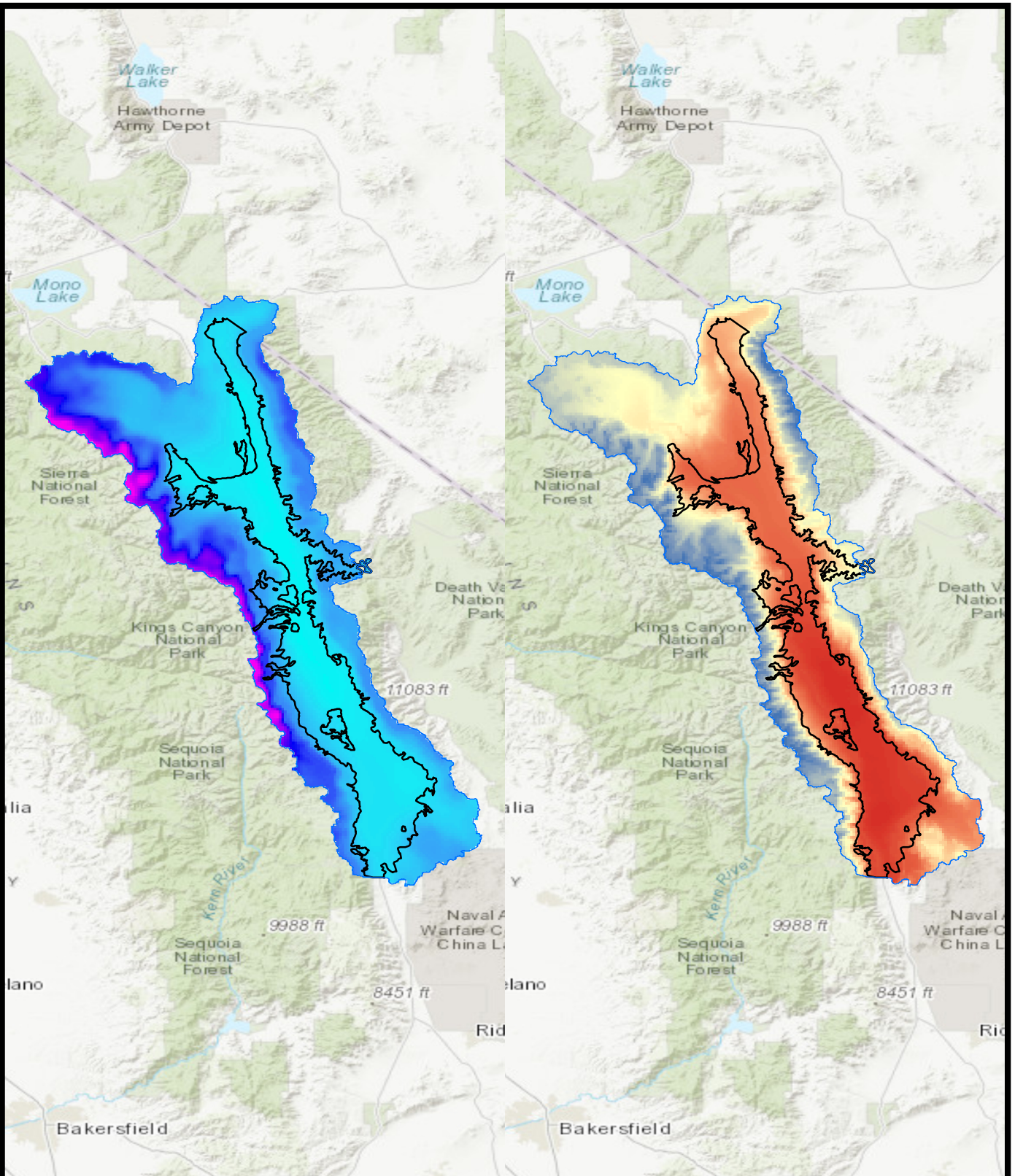
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MONITORING PLAN AND DATA GAPS ANALYSIS  
 Owens Valley Watershed Topography

Figure 1-3



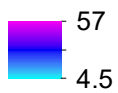
K:\PROJECTS\WATER\_RESOURCE\_SERVICES\PUBLIC\DB18.1418.00 OWENS VALLEY GSP\GIS\MXD\SIGSP\_MXD\APPENDICES\10\_MPDGAIPRECIPITATION\_TEMPERATURE.MXD



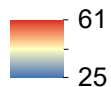
Source: PRISM 30-year normals (1981-2010)

**Explanation**

Precipitation (in/yr)

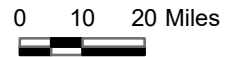


Average annual temperature (degrees F)



Watershed Boundary

Groundwater Basin



MONITORING PLAN AND DATA GAPS ANALYSIS

**Mean Annual Precipitation and Temperature**



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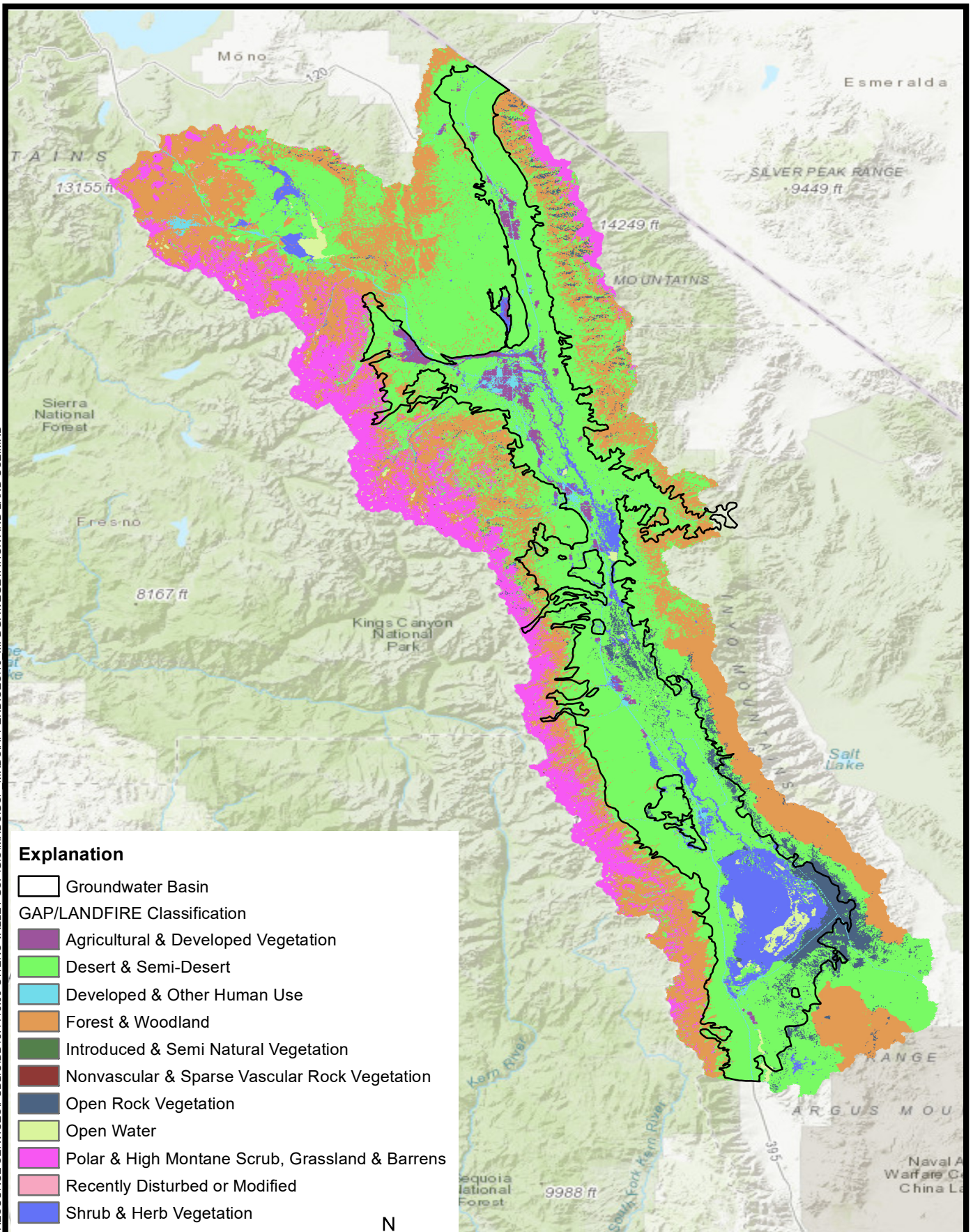
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Figure 1-4



K:\PROJECTS\WATER RESOURCE SERVICES\PUBLIC\DB18.1418.00 OWENS VALLEY GSP\GIS\MXD\SIGSP\MXD\APPENDICES\10 MPDGA\VEGETATION AND LAND USE.MXD



**Explanation**

- Groundwater Basin
- GAP/LANDFIRE Classification**
- Agricultural & Developed Vegetation
- Desert & Semi-Desert
- Developed & Other Human Use
- Forest & Woodland
- Introduced & Semi Natural Vegetation
- Nonvascular & Sparse Vascular Rock Vegetation
- Open Rock Vegetation
- Open Water
- Polar & High Montane Scrub, Grassland & Barrens
- Recently Disturbed or Modified
- Shrub & Herb Vegetation



Source: USGS GAP/LANDFIRE National Terrestrial Ecosystems 2011

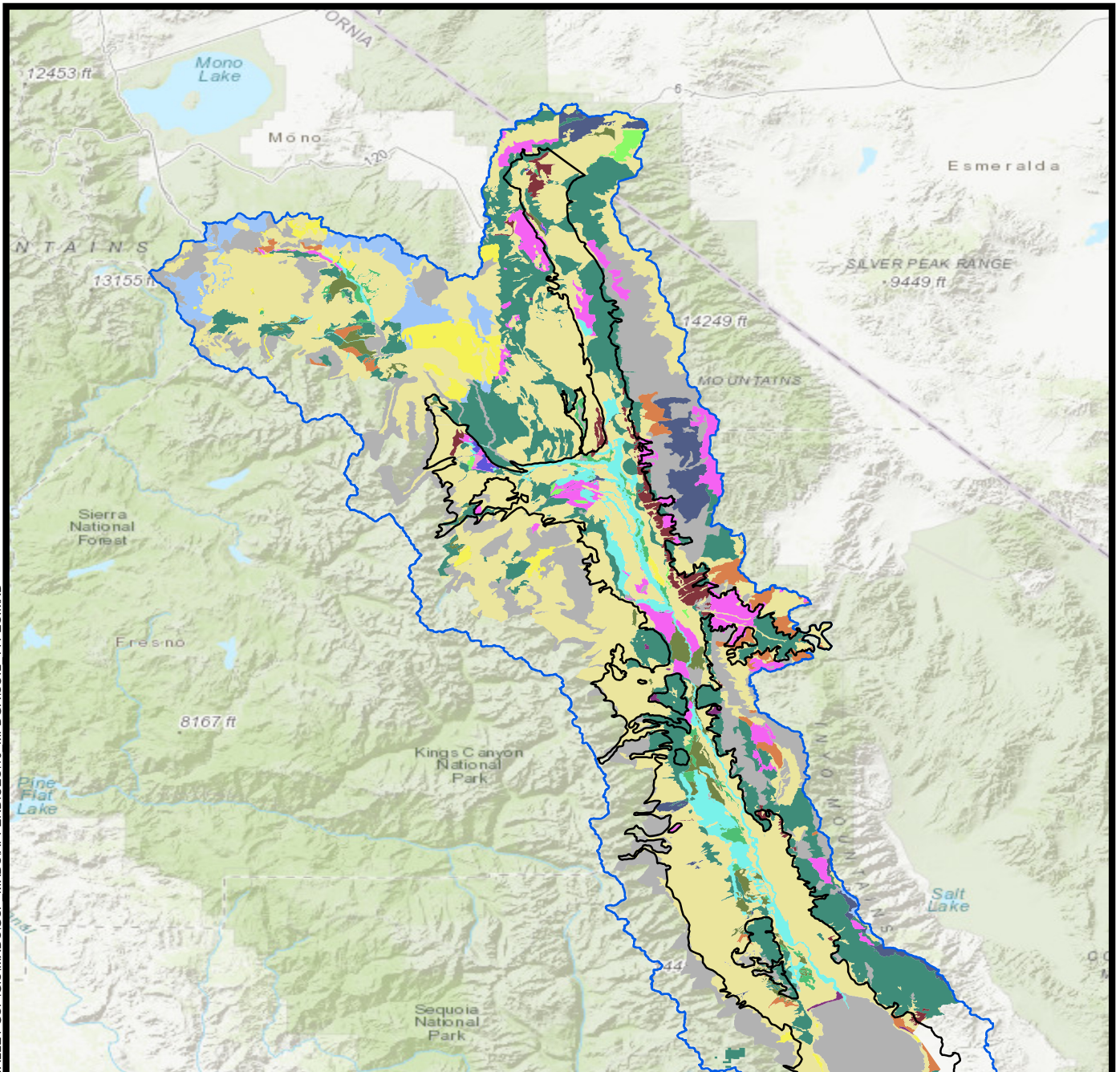
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MONITORING PLAN AND DATA GAPS ANALYSIS  
**Vegetation and Land Use**

Figure 1-5



K:\PROJECTS\WATER RESOURCE SERVICES\PUBLIC\DB18.1418.00 OWENS VALLEY GSP\IGIS\MXD\SIGSP\_MXD\APPENDICES\10\_MPDGASOIL\_TYPES.MXD

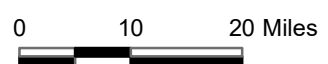


**Explanation**

- Groundwater Basin
- Watershed Boundary

**Soil Type**

- |                              |                            |
|------------------------------|----------------------------|
| Clayey Gravel                | Peat                       |
| Clayey Sand                  | Poorly Graded Gravel       |
| Clayey and Silty Gravel      | Poorly Graded Sand         |
| Clayey and Silty Sand        | Poorly Graded Silty Gravel |
| Low Plasticity Clay          | Poorly Graded Silty Sand   |
| Low Plasticity Clay and Silt | Silt                       |
| Organic Silt and Clay        | Silty Gravel               |
|                              | Silty Sand                 |
|                              | Unknown                    |



Source: NRCS SSURGO database September 16, 2019.



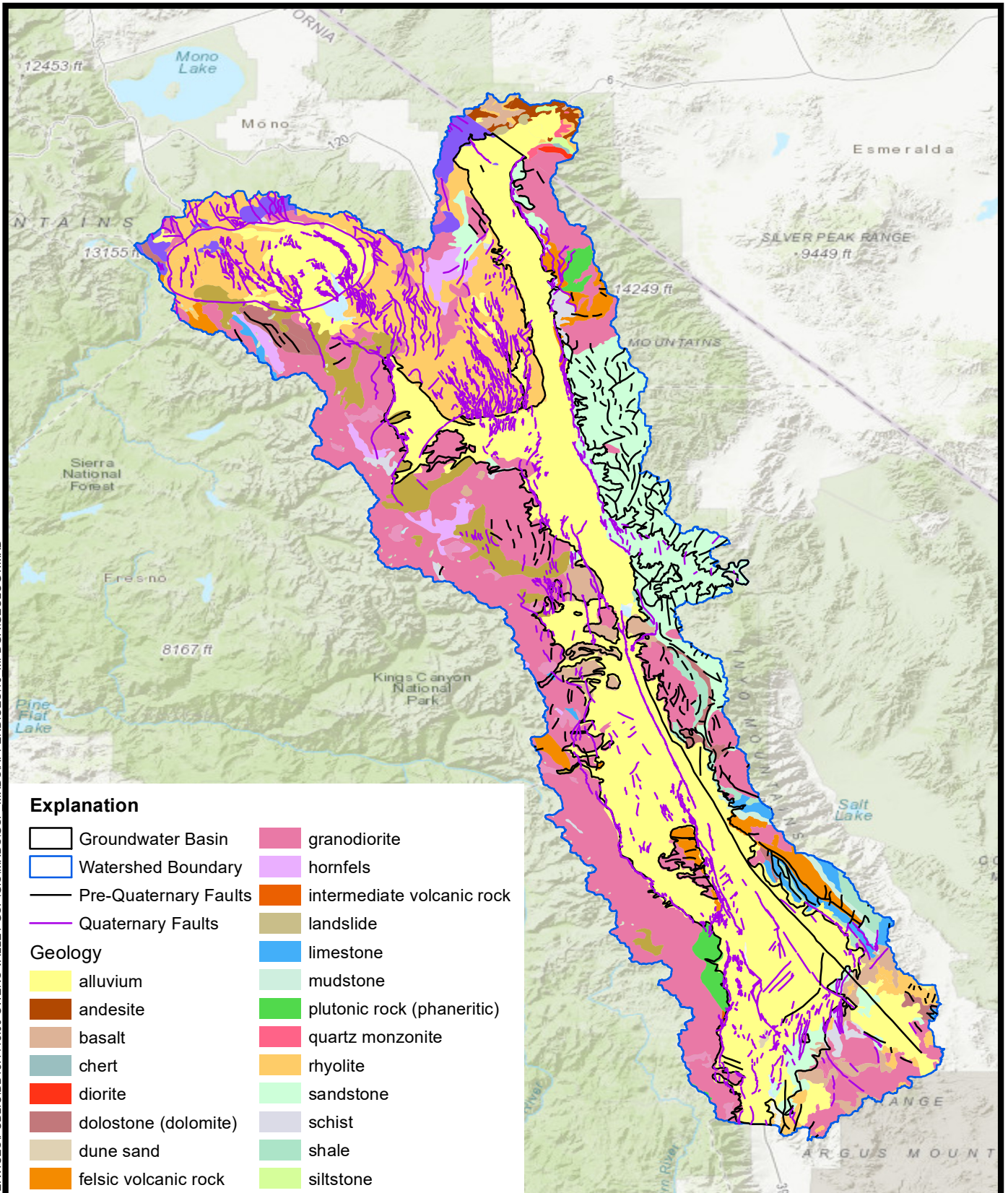
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MONITORING PLAN AND DATA GAPS ANALYSIS  
**Soil Types**

Figure 1-6



K:\PROJECTS\WATER RESOURCE SERVICES\PUBLIC\DB18.1418.00 OWENS VALLEY GSP\GIS\MXD\SIGSP MXD\APPENDICES\10 MPDGA\GEOLOGY.MXD



**Explanation**

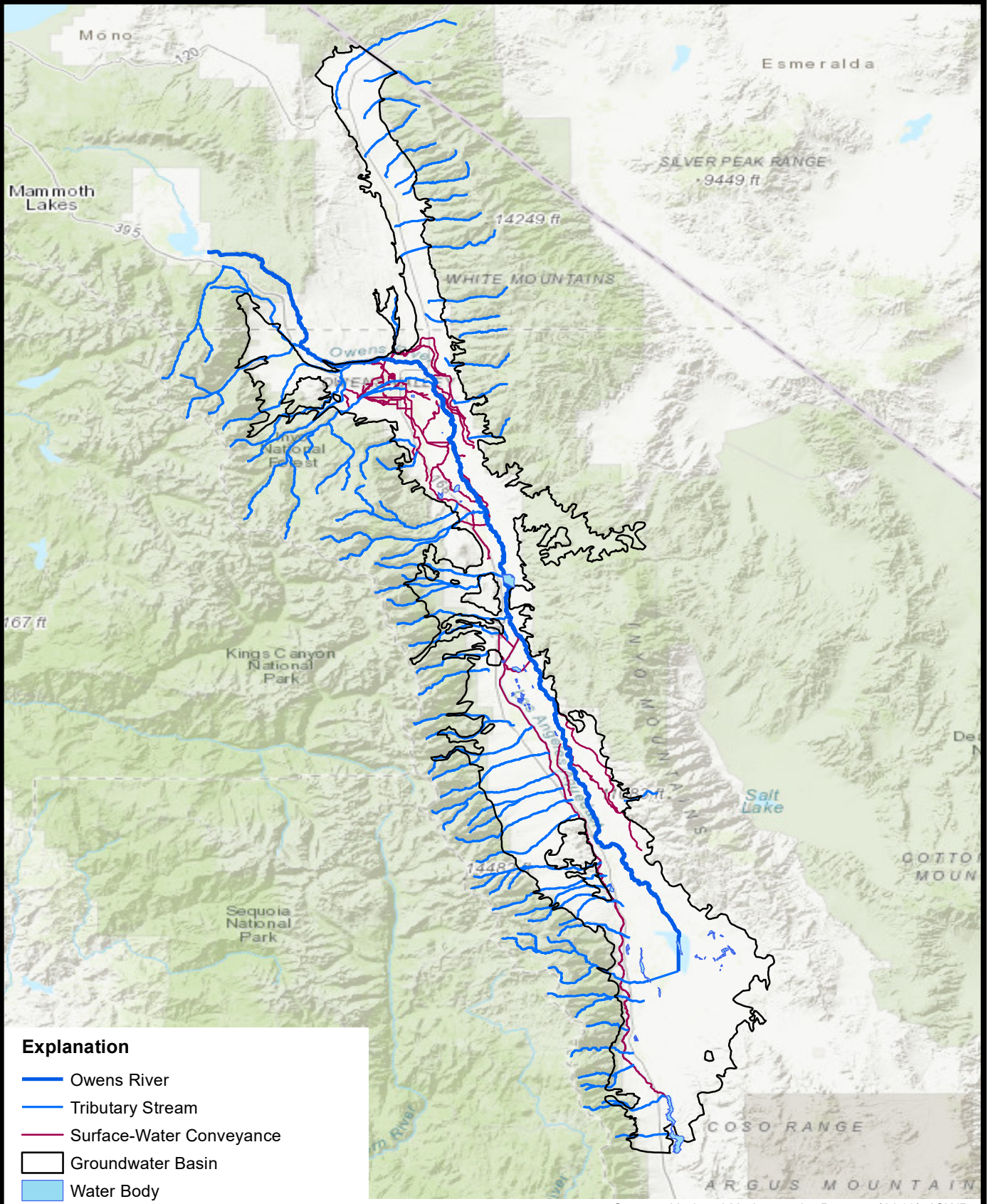
- |                       |                            |
|-----------------------|----------------------------|
| Groundwater Basin     | granodiorite               |
| Watershed Boundary    | hornfels                   |
| Pre-Quaternary Faults | intermediate volcanic rock |
| Quaternary Faults     | landslide                  |
| <b>Geology</b>        |                            |
| alluvium              | limestone                  |
| andesite              | mudstone                   |
| basalt                | plutonic rock (phaneritic) |
| chert                 | quartz monzonite           |
| diorite               | rhyolite                   |
| dolostone (dolomite)  | sandstone                  |
| dune sand             | schist                     |
| felsic volcanic rock  | shale                      |
| gabbro                | siltstone                  |
| glacial drift         | tephrite (basanite)        |



Source: Jennings et al. (1977), Stewart & Carson (1978)

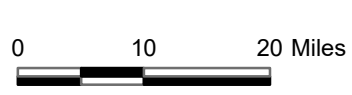


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**Explanation**

- Owens River
- Tributary Stream
- Surface-Water Conveyance
- Groundwater Basin
- Water Body



Source: National Hydrography Dataset (2019); ICWD

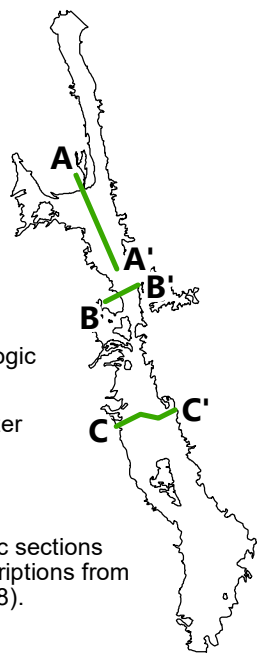
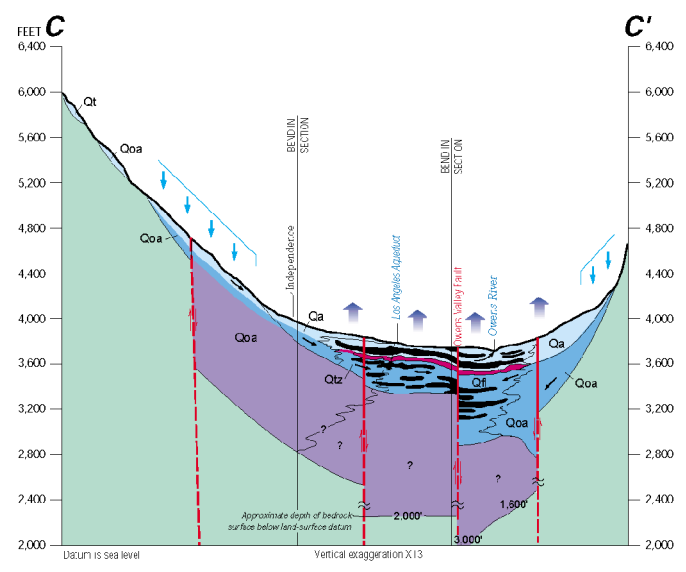
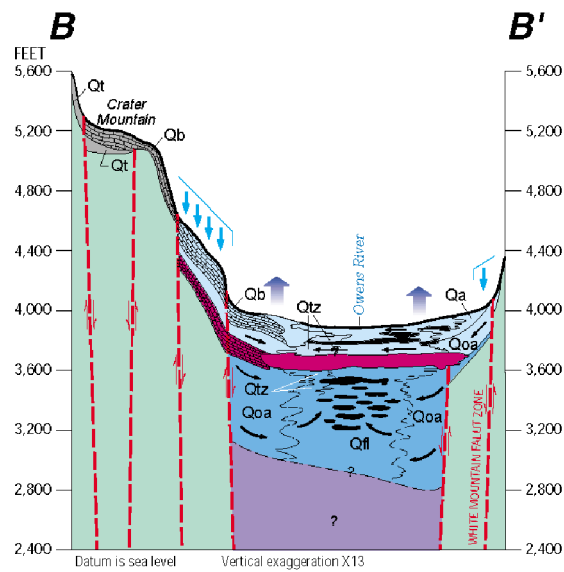
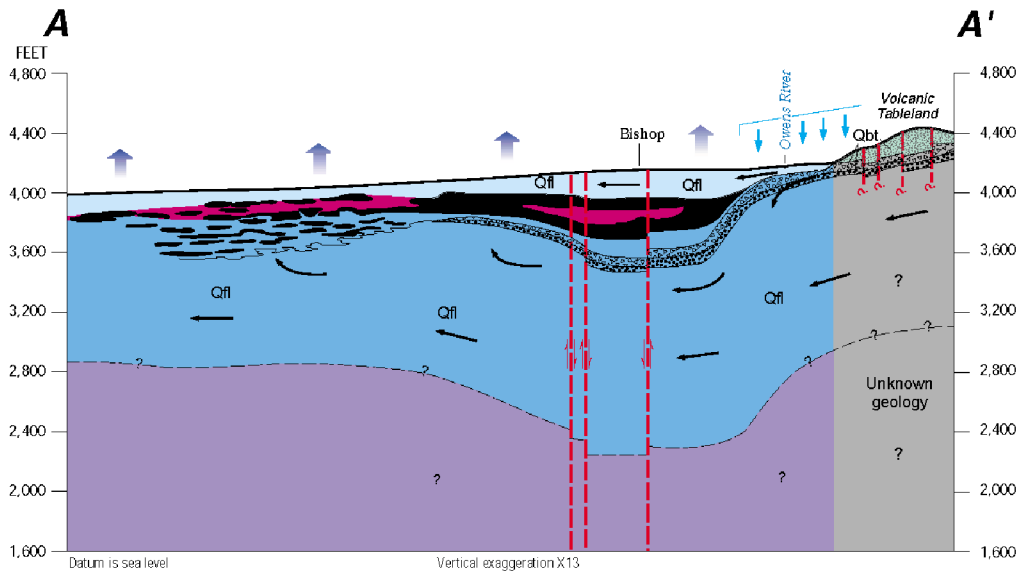


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MONITORING PLAN AND DATA GAPS ANALYSIS  
**Surface-Water Features**

Figure 1-8





**Explanation**

- Hydrogeologic Section
- Groundwater Basin

**Notes:**  
1. Hydrogeologic sections and unit descriptions from Danskin (1998).

**Valley Fill**

- Qa **Younger alluvial fan deposits** - Poorly sorted, unconsolidated gravel, sand, silt, and clay
- Qoa **Older alluvial fan deposits** - Very poorly sorted, unconsolidated to moderately consolidated gravel, sand, silt, and clay
- Qtz **Transition-zone deposits** - Moderately to well-sorted, unconsolidated sandy gravel, not exposed at land surface
- Qt **Glacial and talus deposits** - Poorly to moderately sorted, unconsolidated to consolidated silty-sandy gravels, some clay
- Qfl **Fluvial and lacustrine deposits** - Moderately to well-sorted, unconsolidated lenses and layers of sand, silty sand, and gravelly sand; layers, lenses, or massive beds of silty clay; shaded where massive or continuous bed
- Qb **Olivine basalt** - Flows and cones with extensive interflow breccia and clinker zones; collectively named the Big Pine volcanic field

**Generalized Geologic Units**

QUATERNARY

- Qbt **Bishop Tuff** - Valley-fill members are composed of an upper member of friable ash, pumice, and tuff, shown with ▽-pattern, and a lower basalt member composed principally of pumice
- Qbt **Volcanic Tableland** - Bedrock unit of the upper Bishop Tuff member composed of welded or agglutinated ash and tuff that grades laterally and vertically to the upper valley fill member

PRE-QUATERNARY

- ? **Undifferentiated bedrock units** - includes granitic, metamorphic, volcanic, and sedimentary rocks
- ? **Unknown geology**

**Hydrogeologic Units**

- Unit 1** - Unconfined part of the aquifer system
- Unit 2** - Confining unit of the aquifer system
- Unit 3** - Confined and unconfined parts of the aquifer system
- Unit 4** - Where present, the top serves as the base of the aquifer system
- Permeable materials** - Not part of the defined aquifer system

**Approximate area of groundwater recharge or discharge**

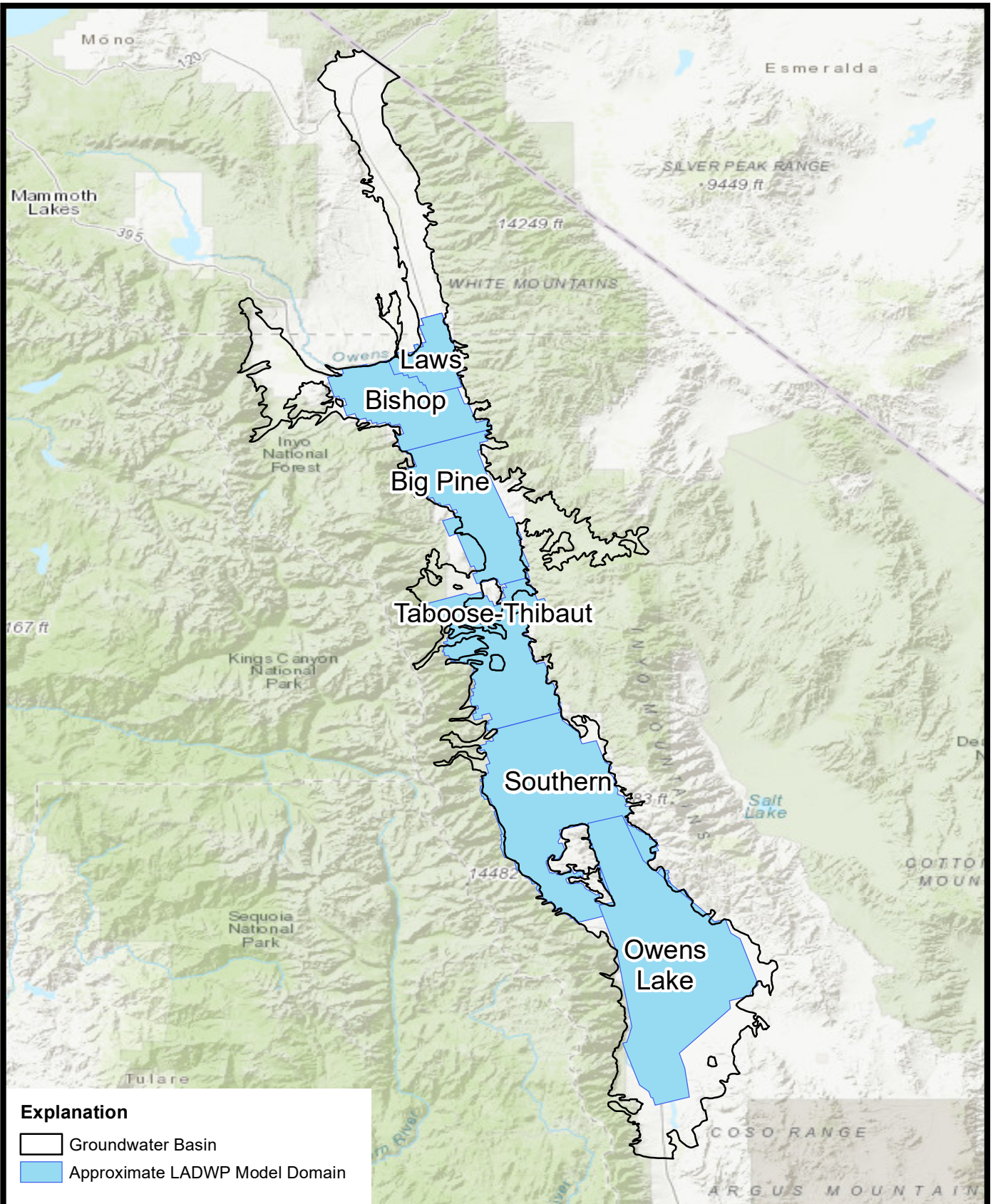
- ↓ Recharge, mostly from tributary streams
- ↑ Discharge, mostly to evapotranspiration

**Generalized direction of groundwater flow**



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**Explanation**

-  Groundwater Basin
-  Approximate LADWP Model Domain

0 10 20 Miles



**Notes:**

- 1. Model domains digitized from maps in documentation reports



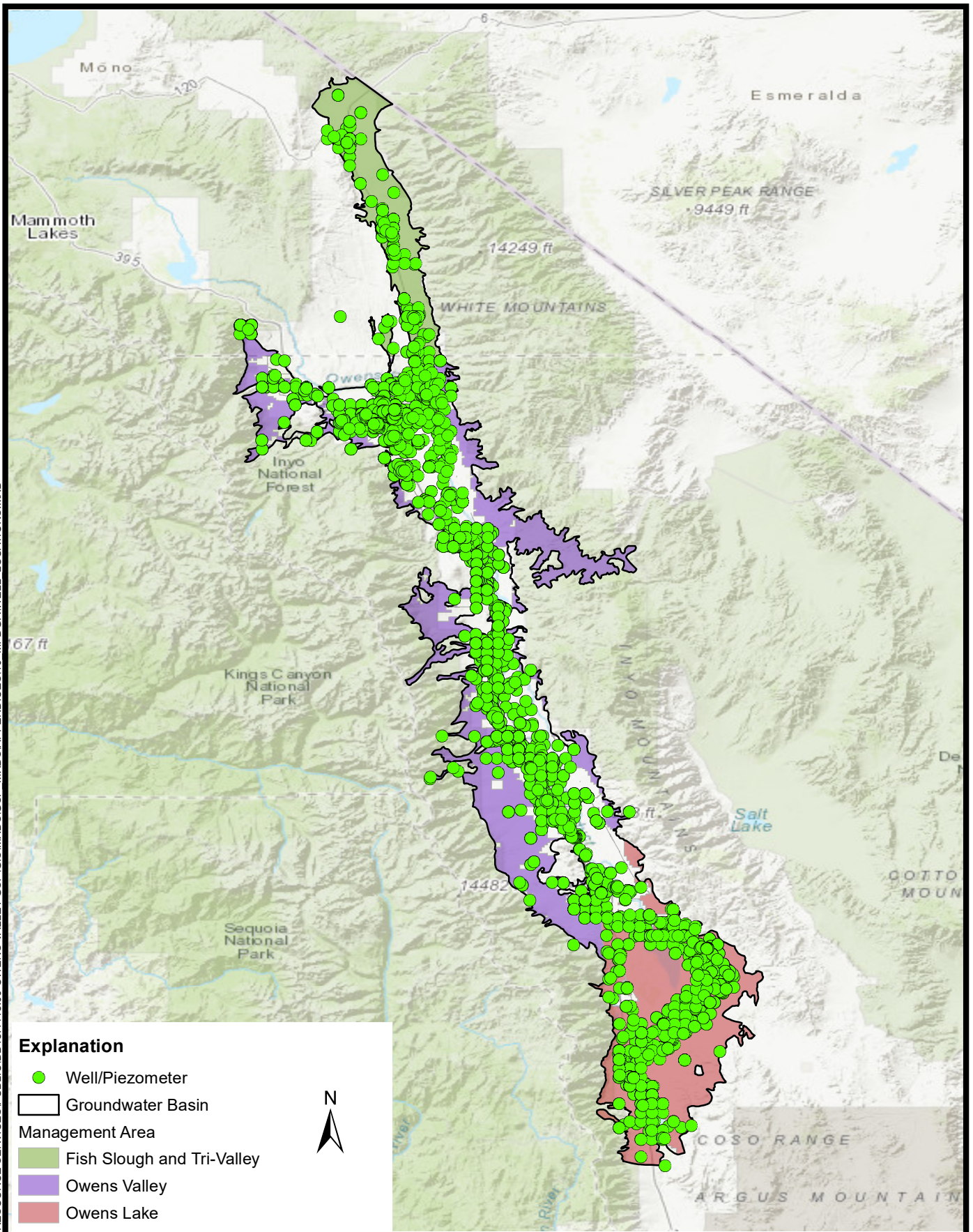
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**MONITORING PLAN AND DATA GAPS ANALYSIS**  
**LADWP Groundwater Model Domains**

Figure 1-10



K:\PROJECTS\WATER RESOURCE SERVICES\PUBLIC\DB18.1418.00 OWENS VALLEY GSP\GIS\MXD\SIGSP MXD\APPENDICES\10 MPD\GAIWELL\_LOCATIONS.MXD



### Explanation

- Well/Piezometer
- Groundwater Basin Management Area
- Fish Slough and Tri-Valley
- Owens Valley
- Owens Lake



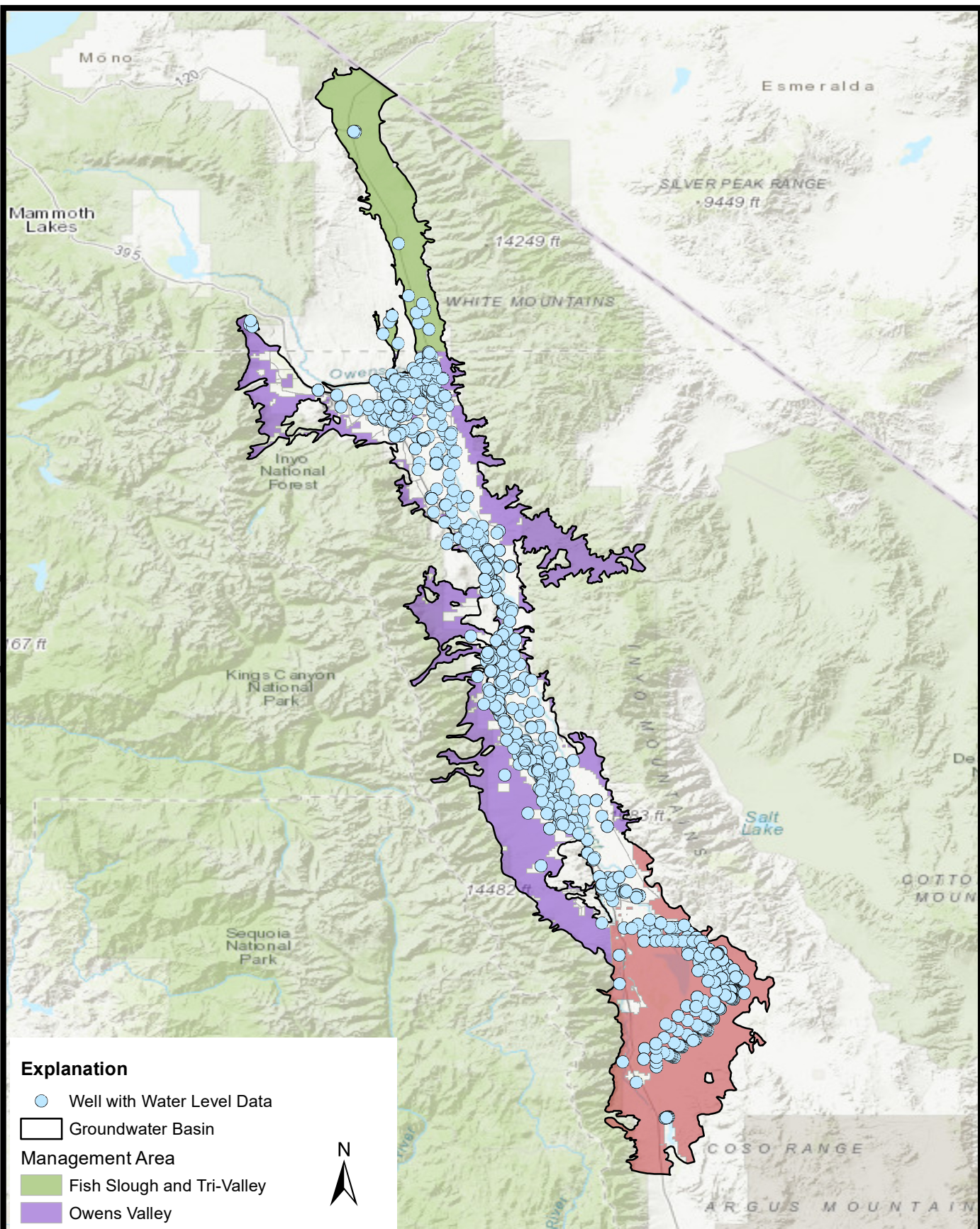
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## MONITORING PLAN AND DATA GAPS ANALYSIS Owens Valley Wells

Figure 2-1a



K:\PROJECTS\WATER RESOURCE SERVICES\PUBLIC\DB18.1418.00 OWENS VALLEY GSP\IGIS\MXD\SIGSP MXD\APPENDICES\10\_MPDGAIWATER\_LEVEL\_OBSERVATIONS.MXD



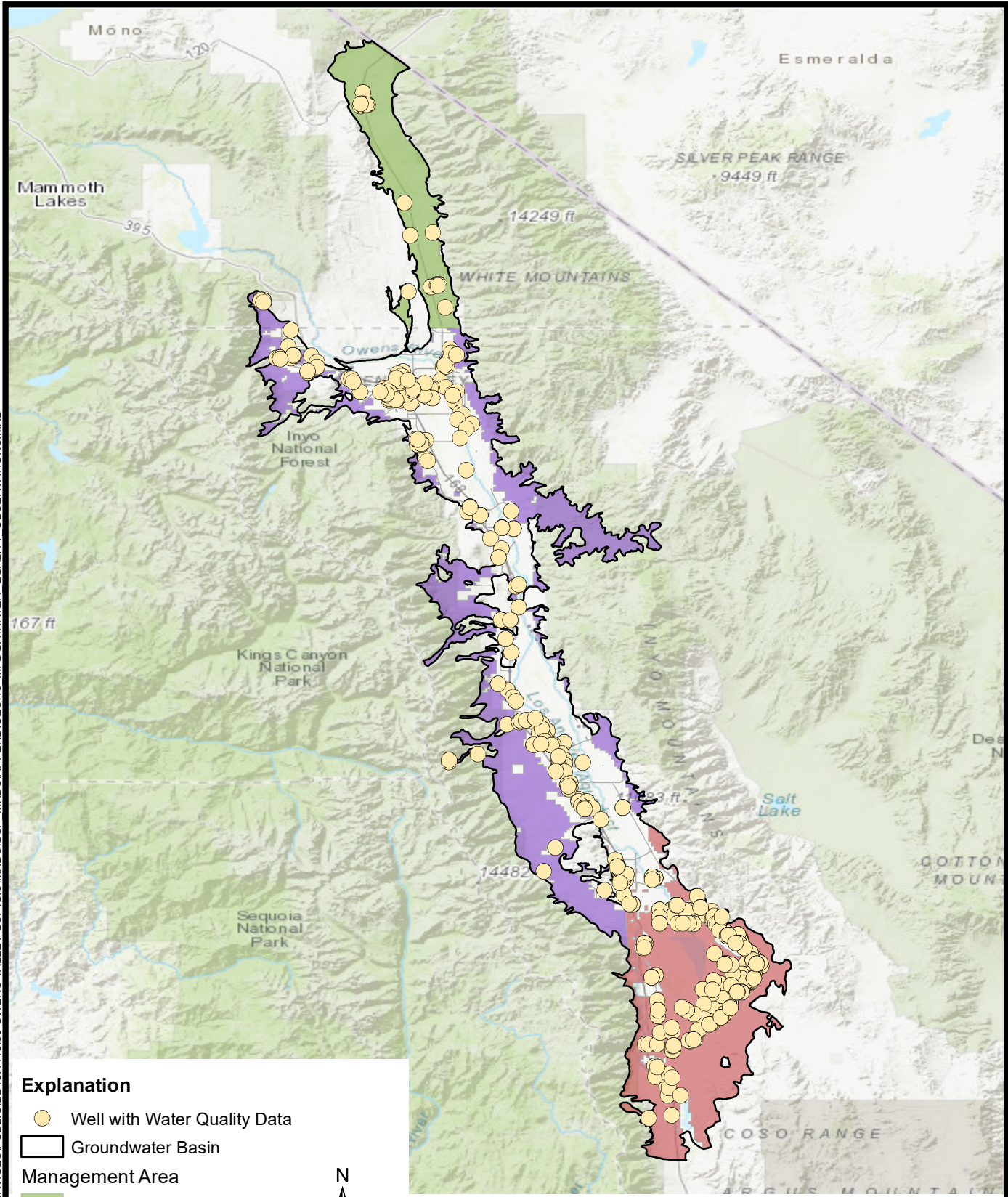
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MONITORING PLAN AND DATA GAPS ANALYSIS  
**Wells with Water Level Data**






Figure 2-1b

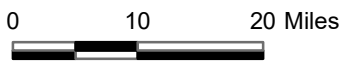


K:\PROJECTS\WATER RESOURCE SERVICES\PUBLIC\DB18.1418.00 OWENS VALLEY.GSP\IGIS\MXD\SIGSP\_MXD\APPENDICES\10\_MPD\GAIWATER\_QUALITY\_OBSERVATIONS.MXD



**Explanation**

-  Well with Water Quality Data
-  Groundwater Basin
- Management Area**
-  Fish Slough and Tri-Valley
-  Owens Valley
-  Owens Lake



**Notes:**

1. Locations sampled for arsenic, chloride, sodium, nitrate, and total dissolved solids (TDS) shown



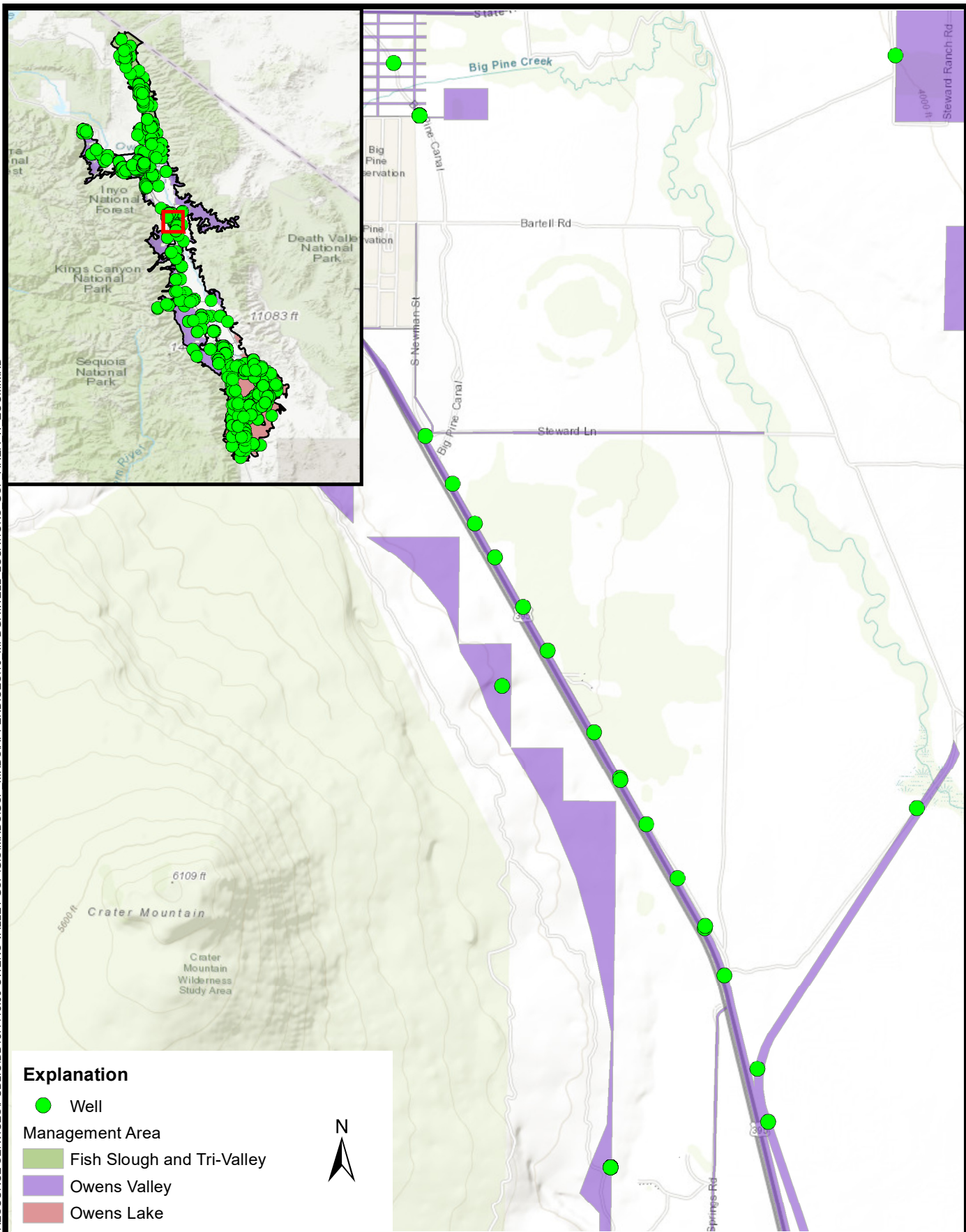
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MONITORING PLAN AND DATA GAP ANALYSIS  
**Water Quality Data**

Figure 2-1c



K:\PROJECTS\WATER RESOURCE SERVICES\PUBLIC\DB18.1418.00 OWENS VALLEY GSP\GIS\MXD\SIGSP\_MXD\APPENDICES\10\_MPDGAIWELL\_LOCATIONS\_GSP\_AREA\_W\_ZOOM.MXD



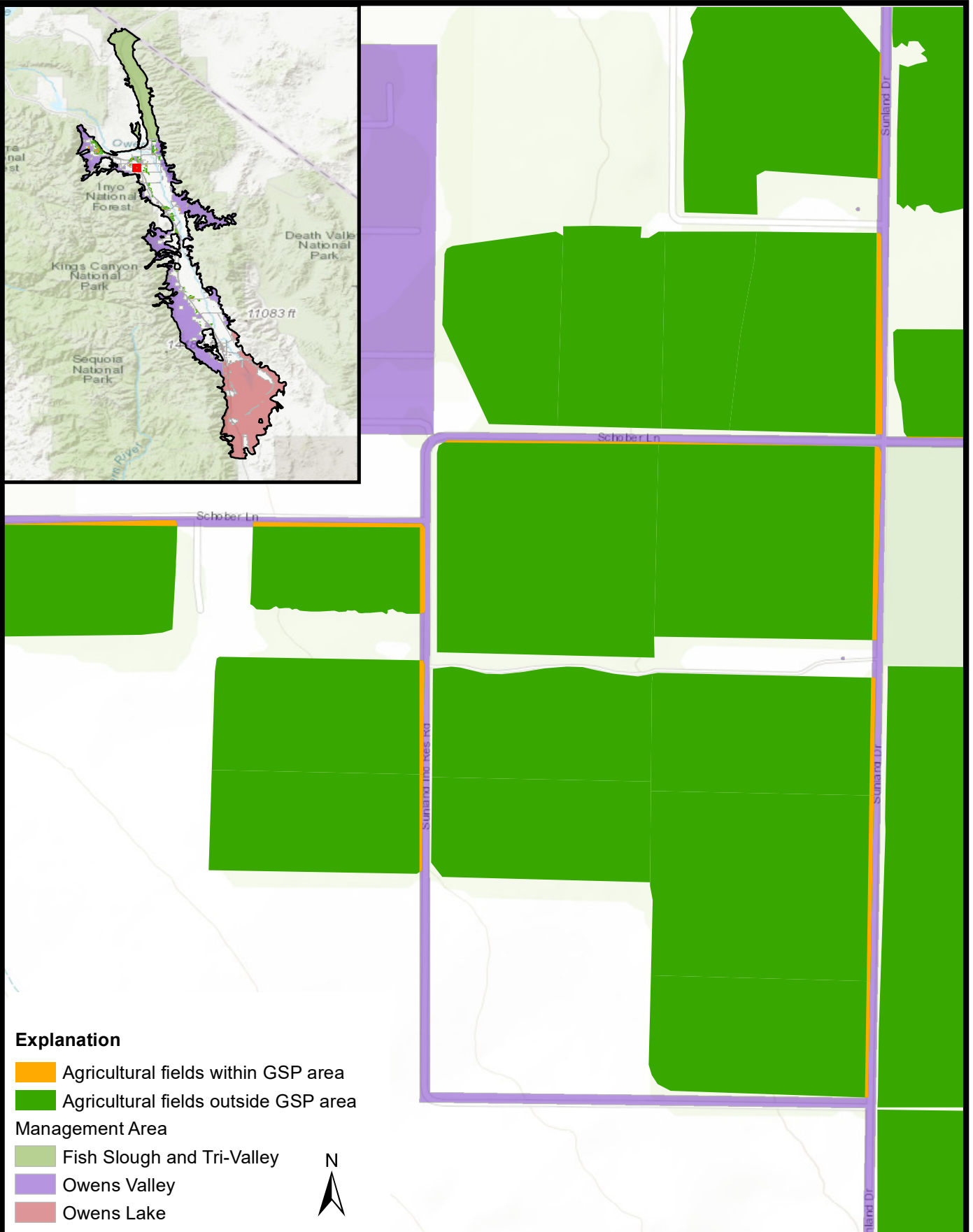
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MONITORING PLAN AND DATA GAPS ANALYSIS  
**Wells located within GSP Area**

Figure 2-2



K:\PROJECTS\WATER RESOURCE SERVICES\PUBLIC\DB18.1418.00 OWENS VALLEY GSP\GIS\MXD\SIGSP\_MXD\APPENDICES\10\_MPDGAAG\_FIELD\_ARTIFACTS.MXD



**Explanation**

- Agricultural fields within GSP area
- Agricultural fields outside GSP area
- Management Area**
- Fish Slough and Tri-Valley
- Owens Valley
- Owens Lake



0 500 1,000 Feet

Source: CADWR (2020)



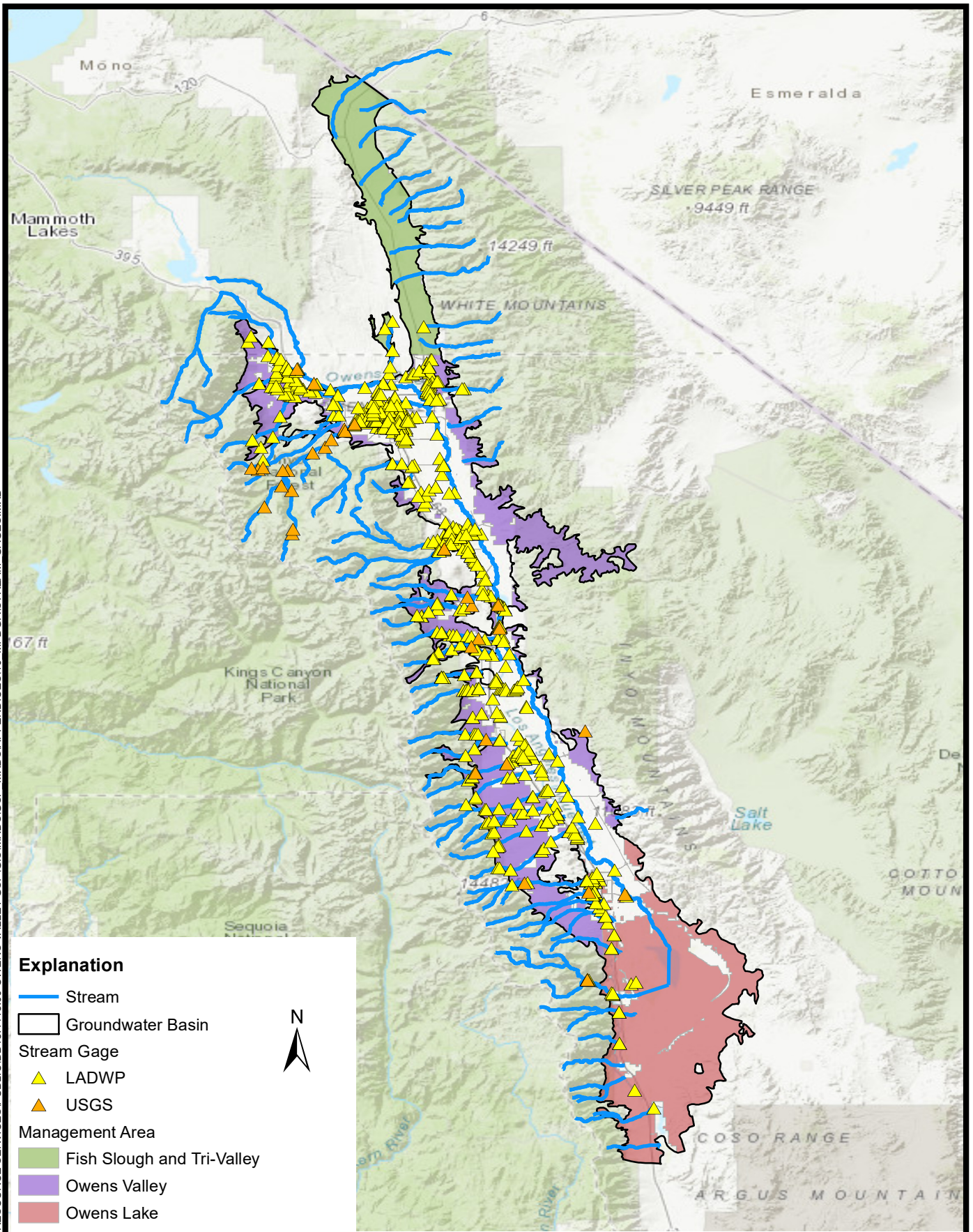
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MONITORING PLAN AND DATA GAPS ANALYSIS  
**Agricultural Field Clipping Artifacts**








Figure 2-3



K:\PROJECTS\WATER RESOURCE SERVICES\PUBLIC\DB18.1418.00 OWENS VALLEY.GSP\GIS\MXD\SIGSP\_MXD\APPENDICES\10\_MPDGA\STREAM\_GAGES.MXD



**Explanation**

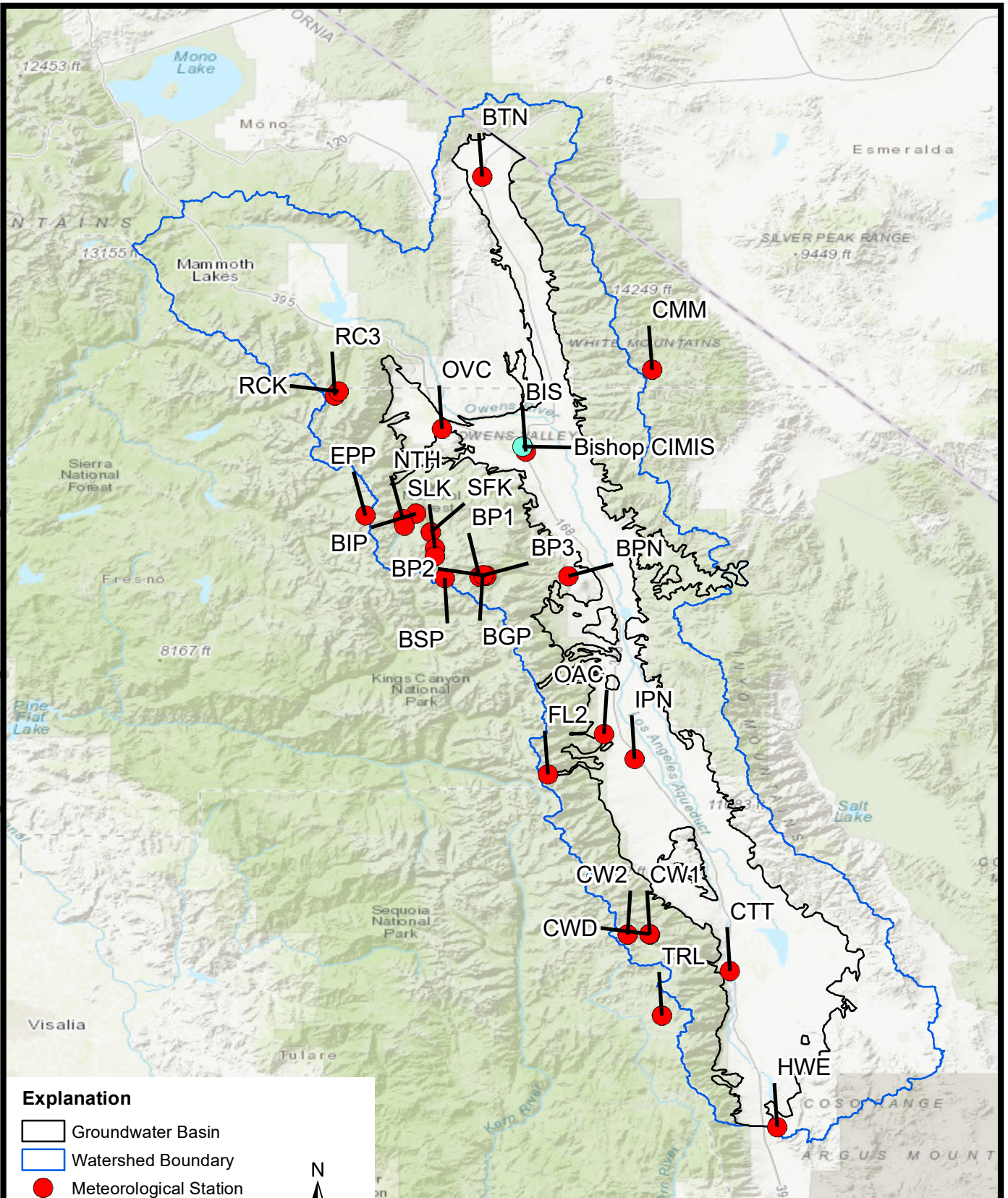
-  Stream
-  Groundwater Basin
- Stream Gage**
-  LADWP
-  USGS
- Management Area**
-  Fish Slough and Tri-Valley
-  Owens Valley
-  Owens Lake

0 10 20 Miles

Source: National Hydrography Dataset (2020); LADWP; USGS

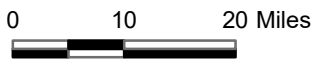


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**Explanation**

- Groundwater Basin
- Watershed Boundary
- Meteorological Station
- CIMIS Station



Sources: CDEC, CIMIS

**Notes:**

1. Watershed boundary modified to include entire groundwater basin.
2. CDEC = California Data Exchange Center
3. CIMIS = California Irrigation Management Information System



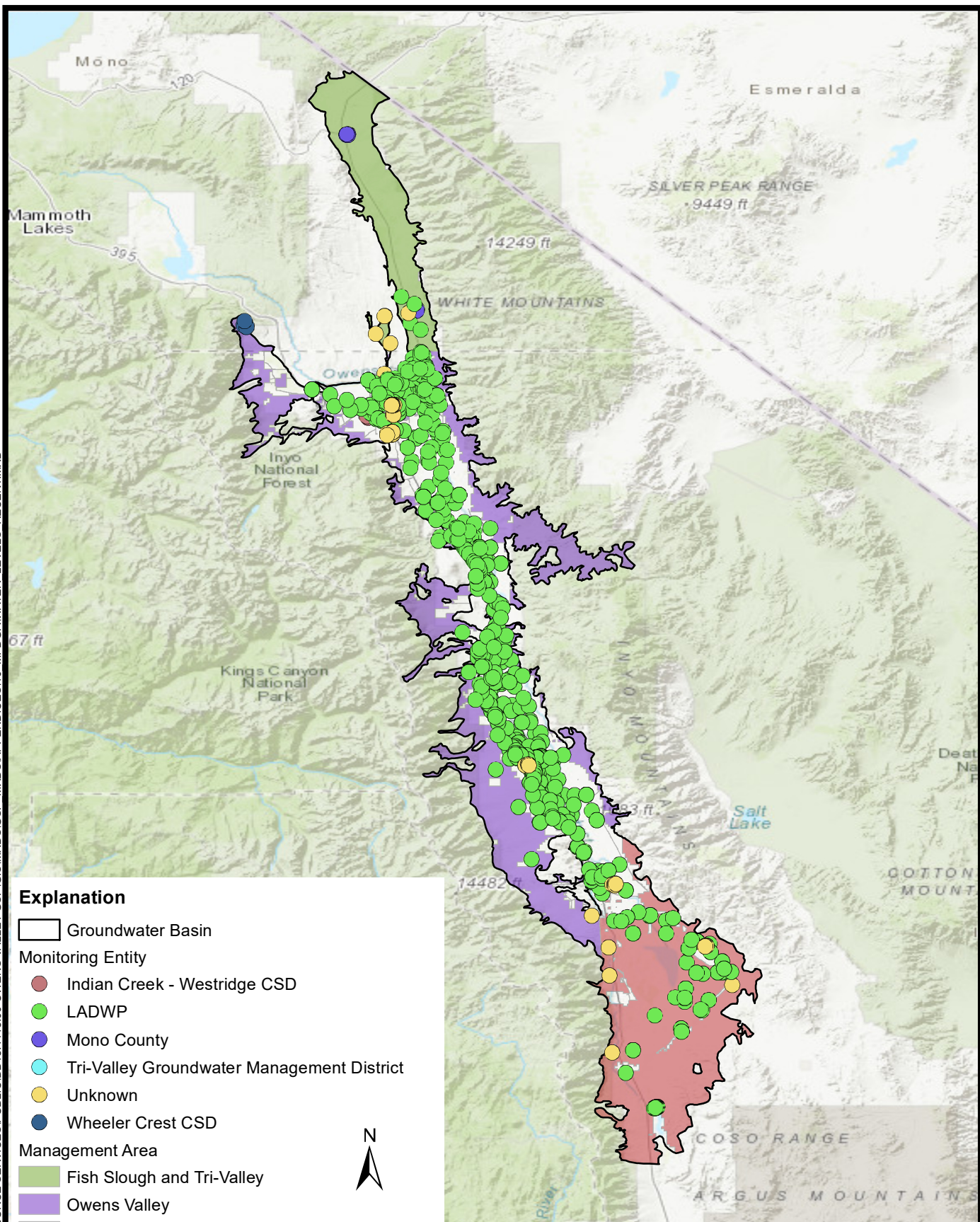
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**MONITORING PLAN AND DATA GAP ANALYSIS  
 Meteorological Stations**

Figure 2-5



K:\PROJECTS\WATER RESOURCE SERVICES\PUBLIC\DB18.1418.00 OWENS VALLEY GSP\GIS\MXD\SIGSP MXD\APPENDICES\10 MPD\GAIWATER\_LEVELS\_RECENT.MXD

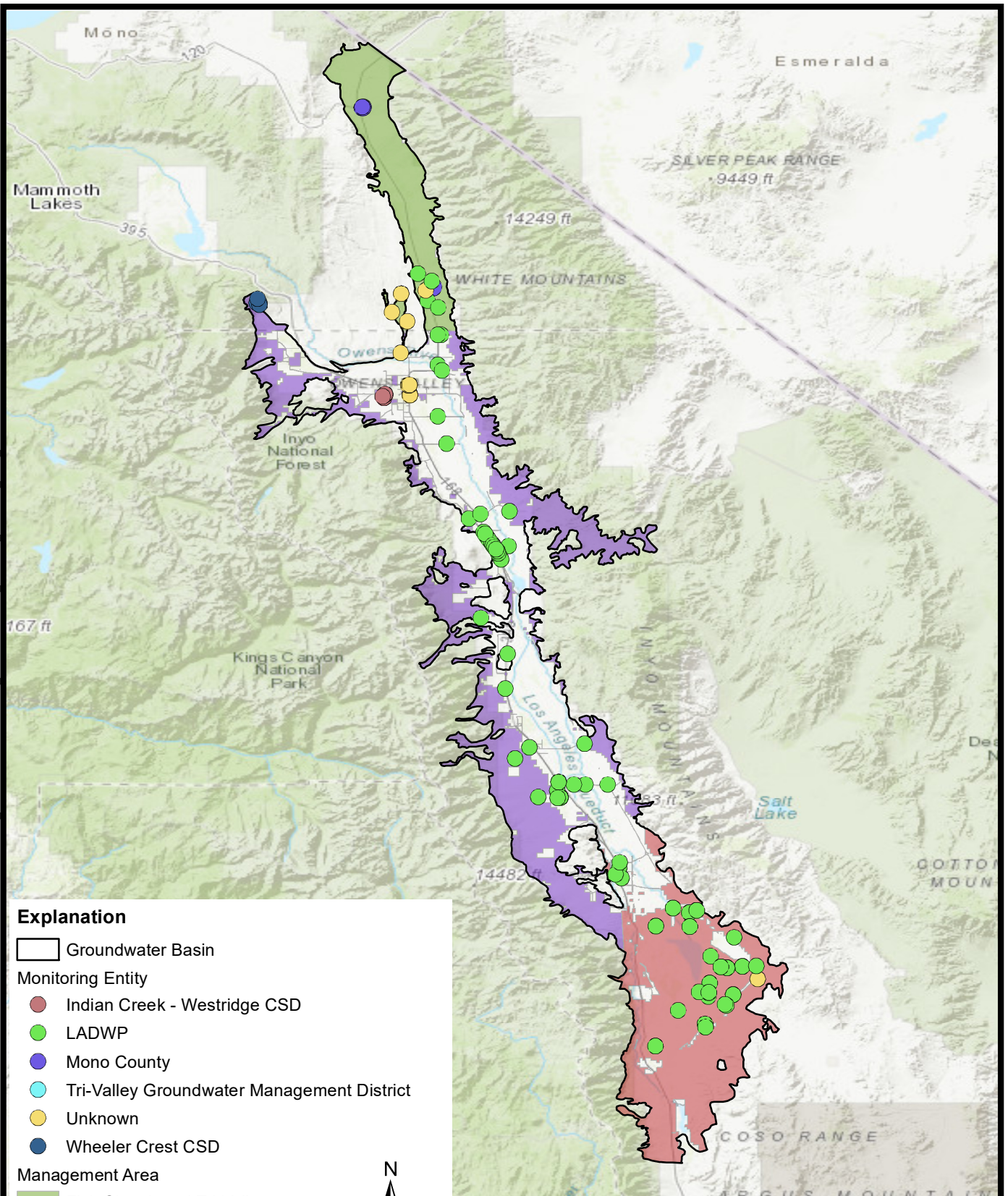


Notes:  
 1. Wells with water levels collected after January 1st, 2010 shown  
 2. Wells with more than three observations shown

Figure 3-1a



K:\PROJECTS\WATER RESOURCE SERVICES\PUBLIC\DB18.1418.00 OWENS VALLEY GSP\GIS\MXD\SIGSP MIXDS\APPENDICES\10 MPD\GAIWATER LEVELS\_RECENT\_GSP\_AREA.MXD



Notes:

1. Wells with water levels collected after January 1st, 2010 shown
2. Wells with more than three observations shown



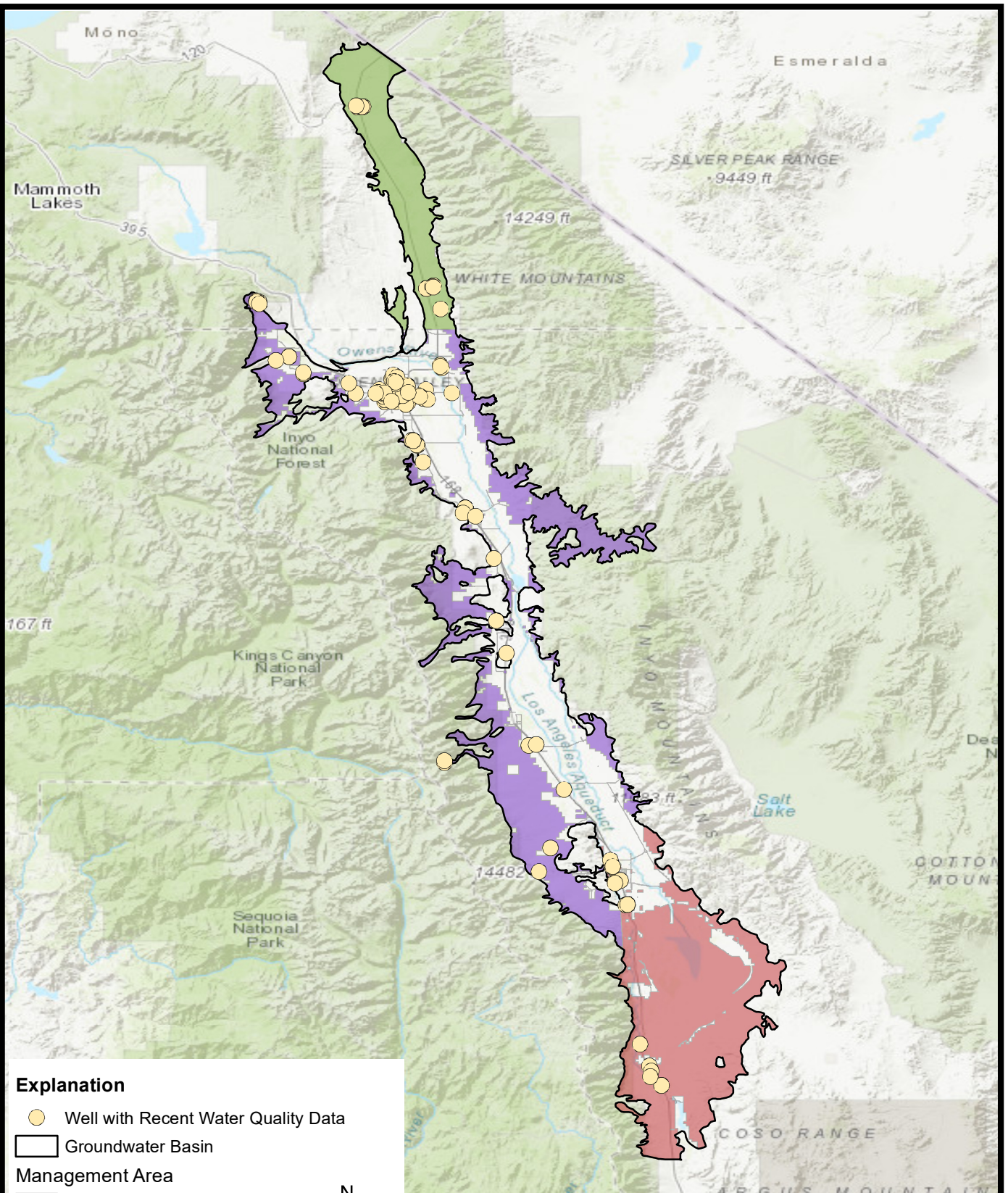
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**MONITORING PLAN AND DATA GAPS ANALYSIS**  
**Wells with Recent Water Level Data**  
**GSP Area**






Figure 3-1b



K:\PROJECTS\WATER\_RESOURCE\_SERVICES\PUBLIC\DB18.1418.00 OWENS VALLEY.GSP\GIS\MXD\SIGSP\_MXD\APPENDICES\10\_MPDGAIWATER\_QUALITY\_RECENT.MXD



**Explanation**

-  Well with Recent Water Quality Data
-  Groundwater Basin
- Management Area**
-  Fish Slough and Tri-Valley
-  Owens Valley
-  Owens Lake



**Notes:**

1. Locations sampled for arsenic, chloride, sodium, nitrate, and total dissolved solids (TDS) shown
2. Wells with observations after January 1, 2010 shown
3. Wells with fewer than three observations omitted



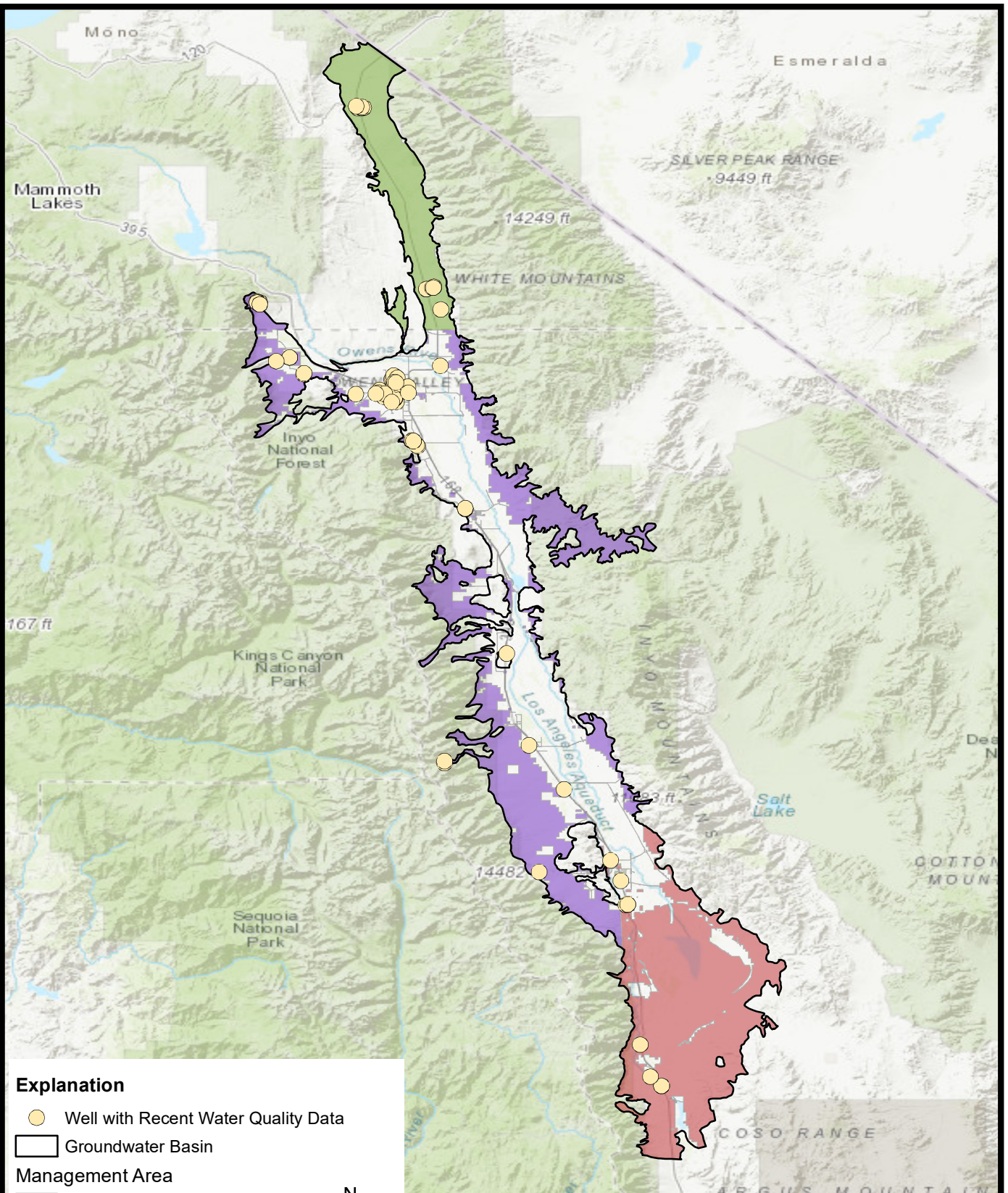
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 5/11/2021 DB18.1418

**MONITORING PLAN AND DATA GAPS ANALYSIS**  
**Recent Water Quality Data**






Figure 3-2a

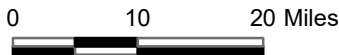


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**Explanation**

-  Well with Recent Water Quality Data
-  Groundwater Basin
- Management Area**
-  Fish Slough and Tri-Valley
-  Owens Valley
-  Owens Lake



**Notes:**

1. Locations sampled for arsenic, chloride, sodium, nitrate, and total dissolved solids (TDS) shown
2. Wells with observations after January 1, 2010 shown
3. Wells with fewer than three observations omitted



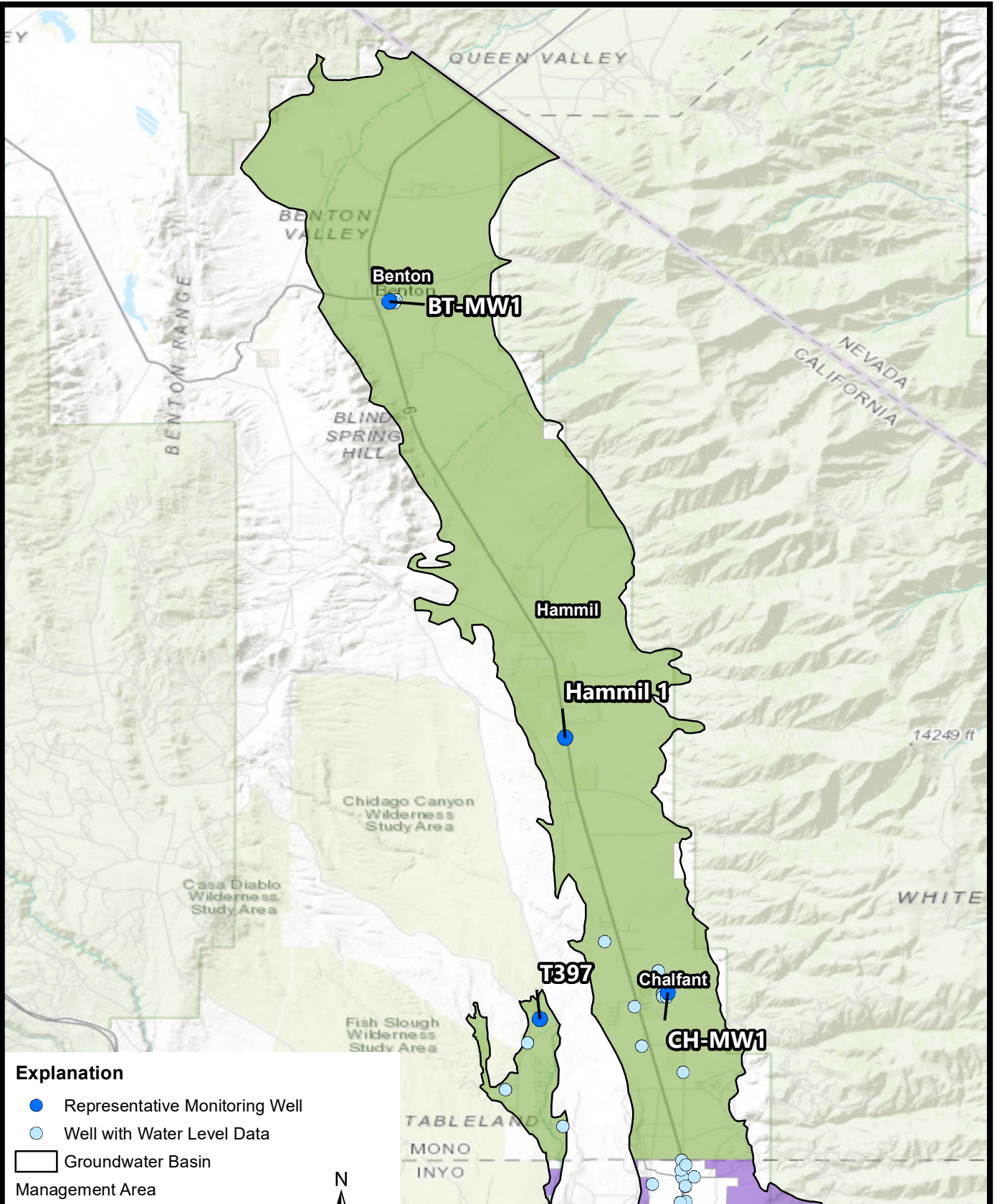
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MONITORING PLAN AND DATA GAPS ANALYSIS  
**Recent Water Quality Data**  
**GSP Area**

Figure 3-2b

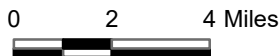


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**Explanation**

- Representative Monitoring Well
- Well with Water Level Data
- Groundwater Basin
- Management Area
- Fish Slough and Tri-Valley
- Owens Valley



**Notes:**

1. Locations with fewer than 3 observations omitted.
2. Locations not measured since January 1st, 2010 omitted.

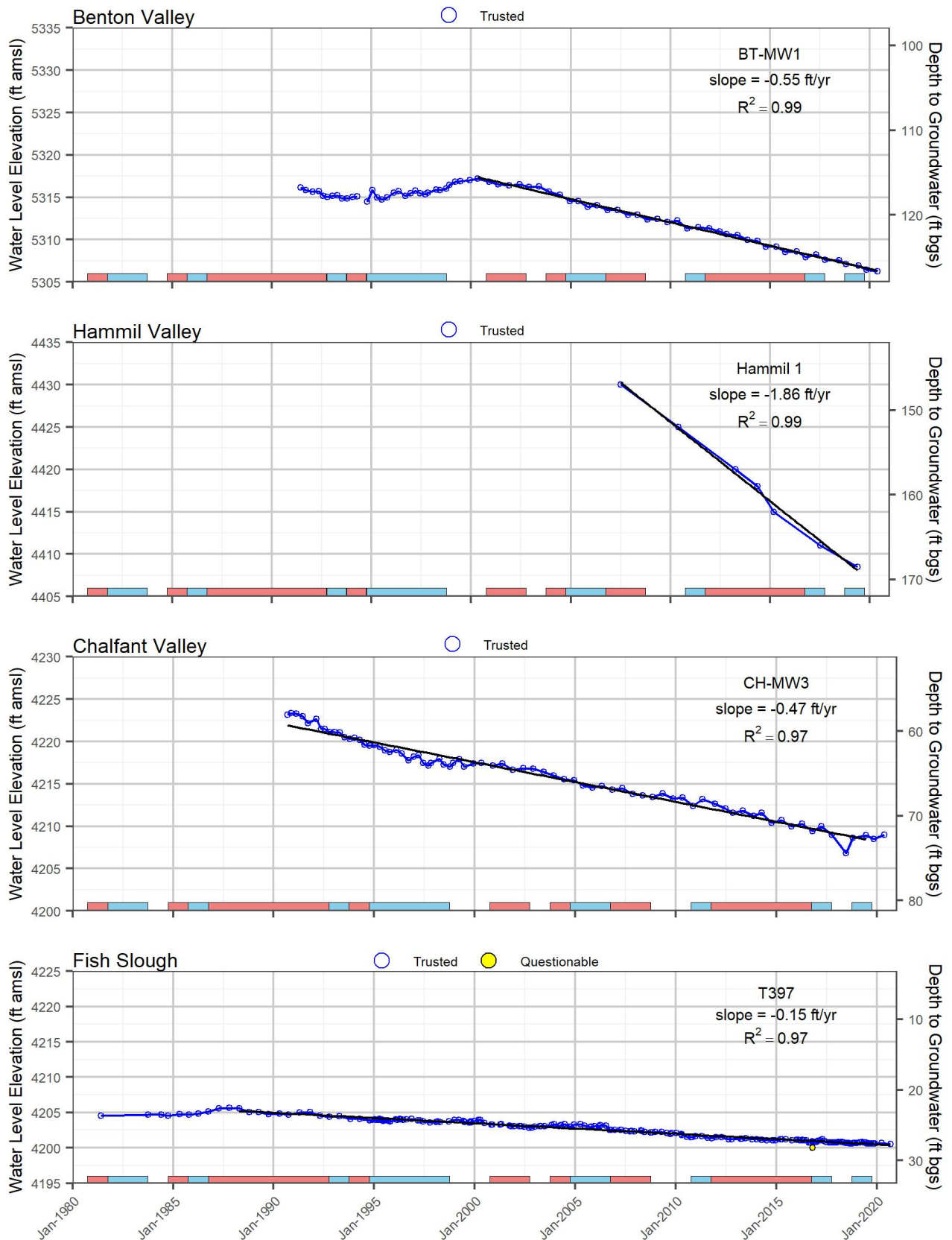
**MONITORING PLAN AND DATA GAPS ANALYSIS**  
**Fish Slough and Tri-Valley Water Levels**  
**Representative Monitoring Wells**



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Figure 4-1



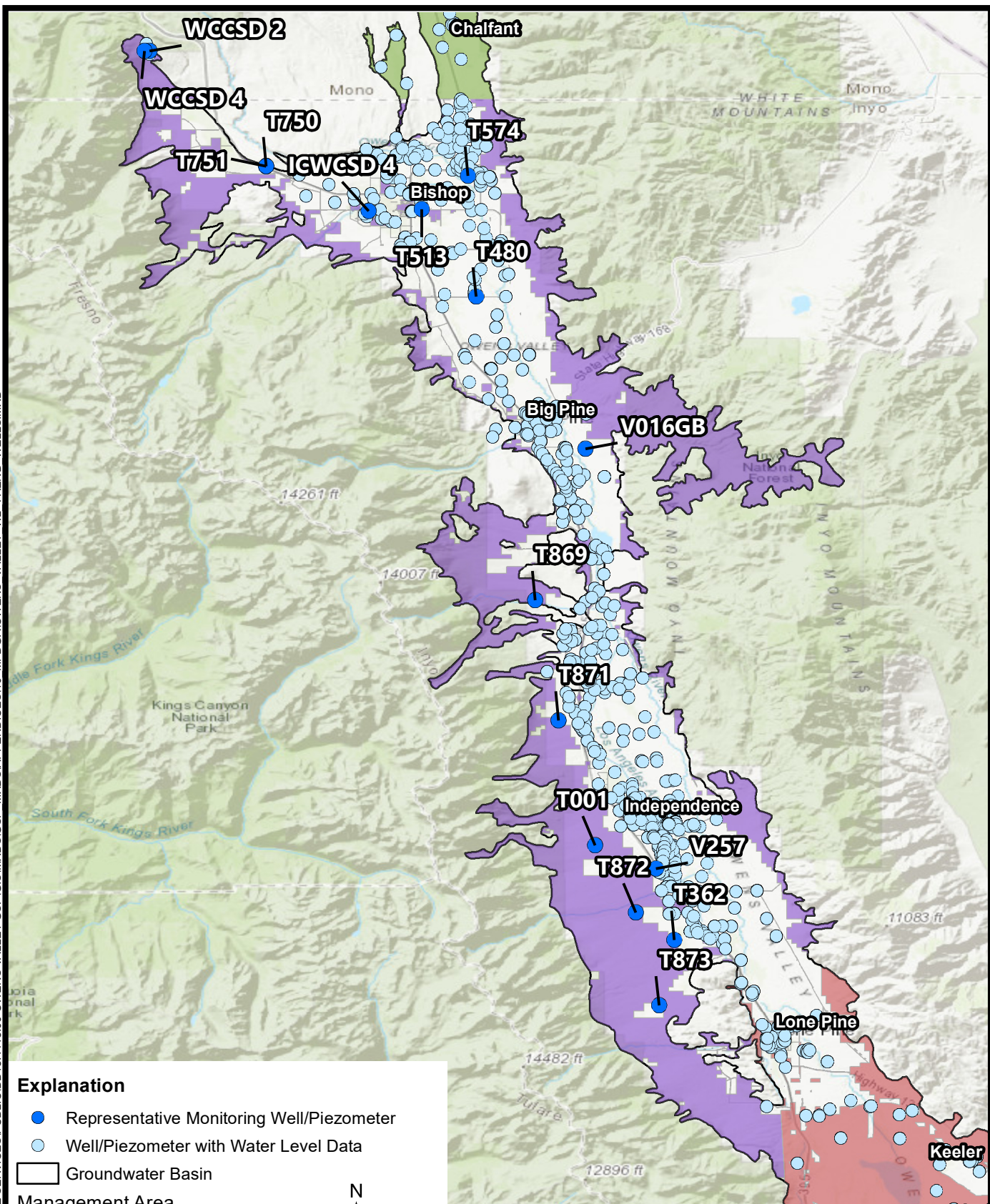


Notes:  
 1. Red and blue rectangles indicate dry and wet water years, respectively

MONITORING PLAN AND DATA GAPS ANALYSIS  
**Fish Slough and Tri-Valley Management Area**  
**Water Level Trends**

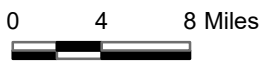


K:\PROJECTS\WATER RESOURCE SERVICES\PUBLIC\DB18.1418.00 OWENS VALLEY.GSP\GIS\MXD\SIGSP\_MXD\APPENDICES\10\_MPDGAIOWENS\_VALLEY\_WL\_TREND\_WELLS.MXD



**Explanation**

- Representative Monitoring Well/Piezometer
- Well/Piezometer with Water Level Data
- Groundwater Basin
- Management Area
- Fish Slough and Tri-Valley
- Owens Valley
- Owens Lake



**Notes:**

1. Wells with water levels collected after January 1st, 2010 shown
2. Wells with more than three observations shown

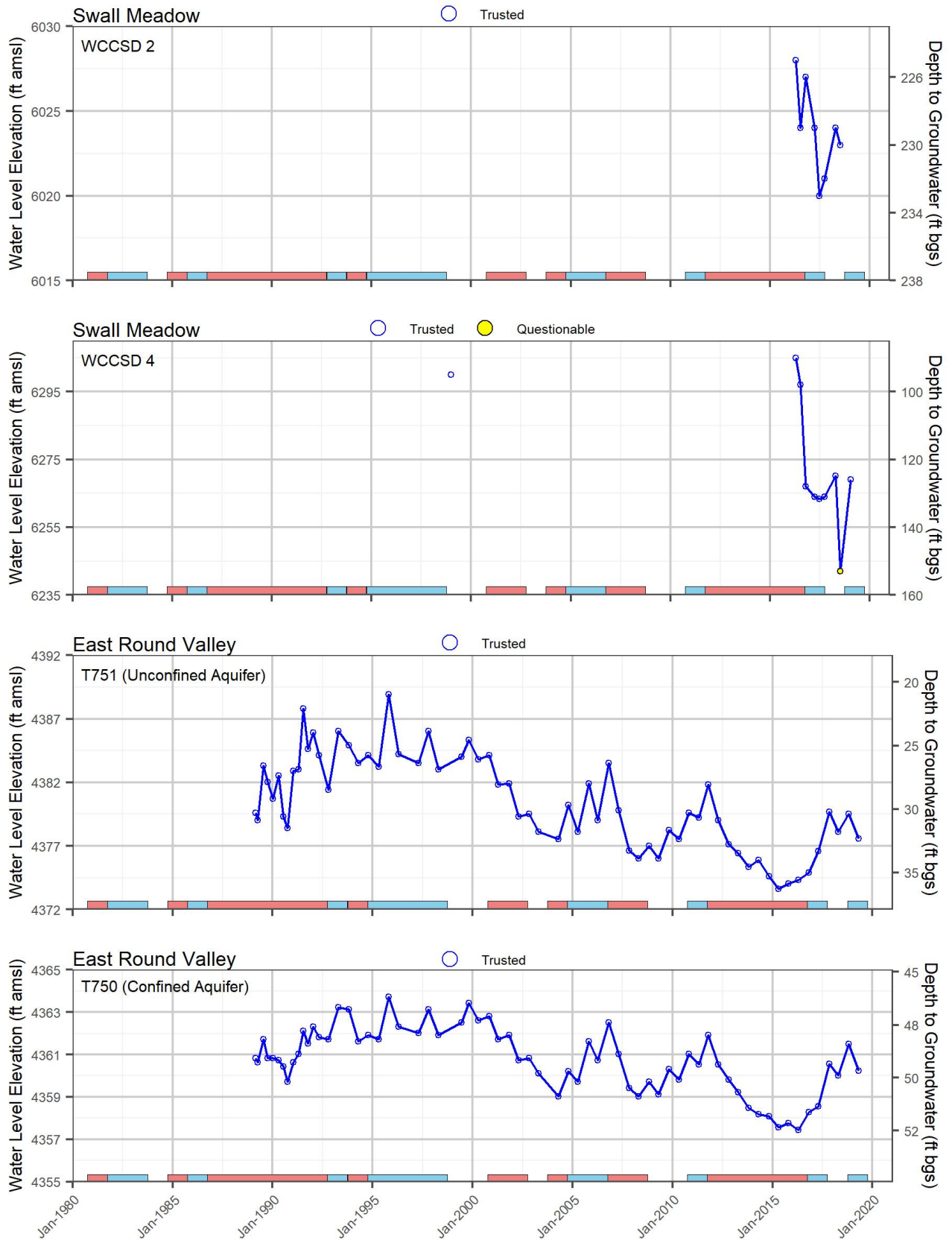
**MONITORING PLAN AND DATA GAPS ANALYSIS**  
**Owens Valley Water Levels**  
**Representative Monitoring Wells**



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Figure 4-4



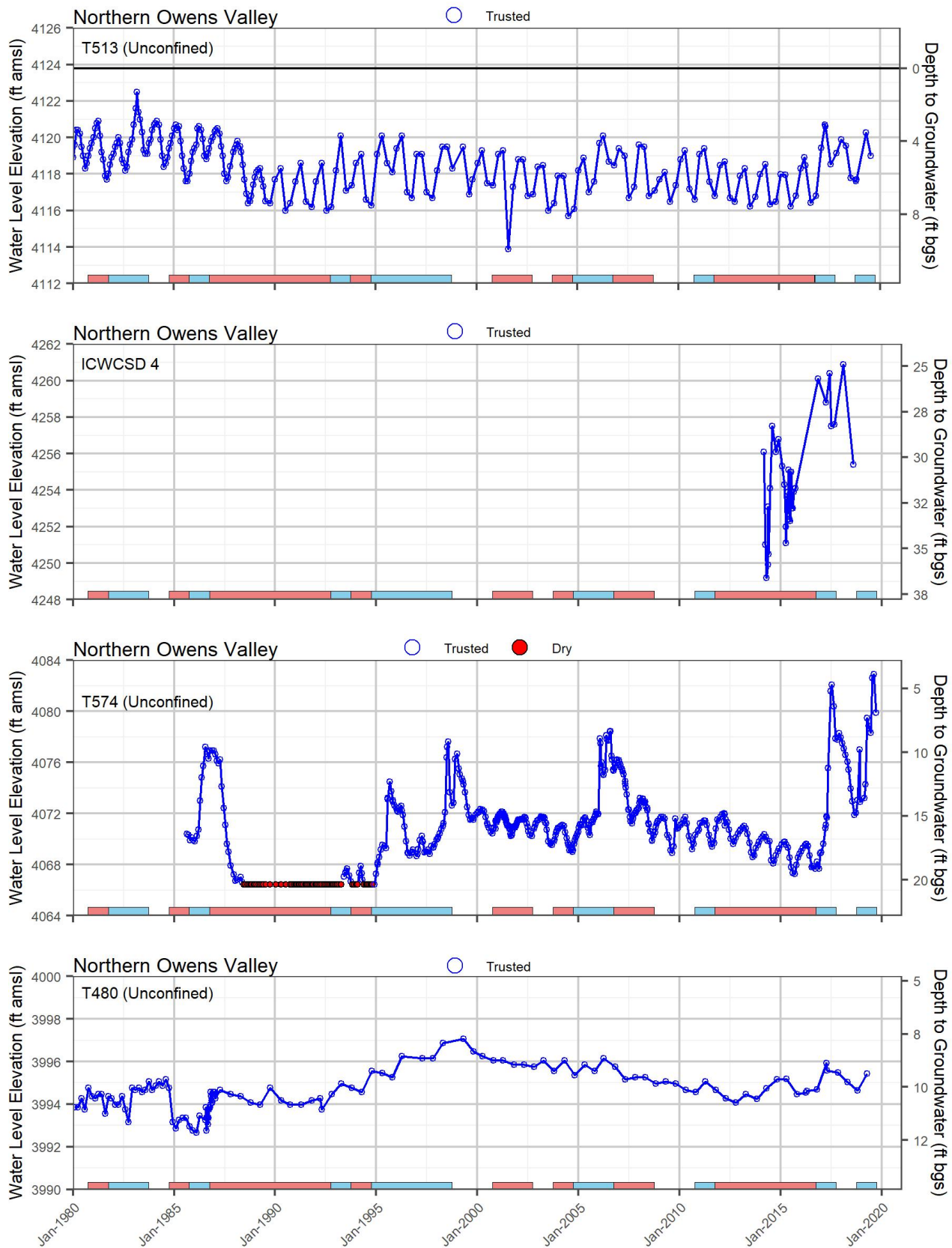


Notes:  
 1. Red and blue rectangles indicate dry and wet water years, respectively

MONITORING PLAN AND DATA GAPS ANALYSIS  
**Owens Valley Management Area**  
**Water Level Trends**

Figure 4-4a

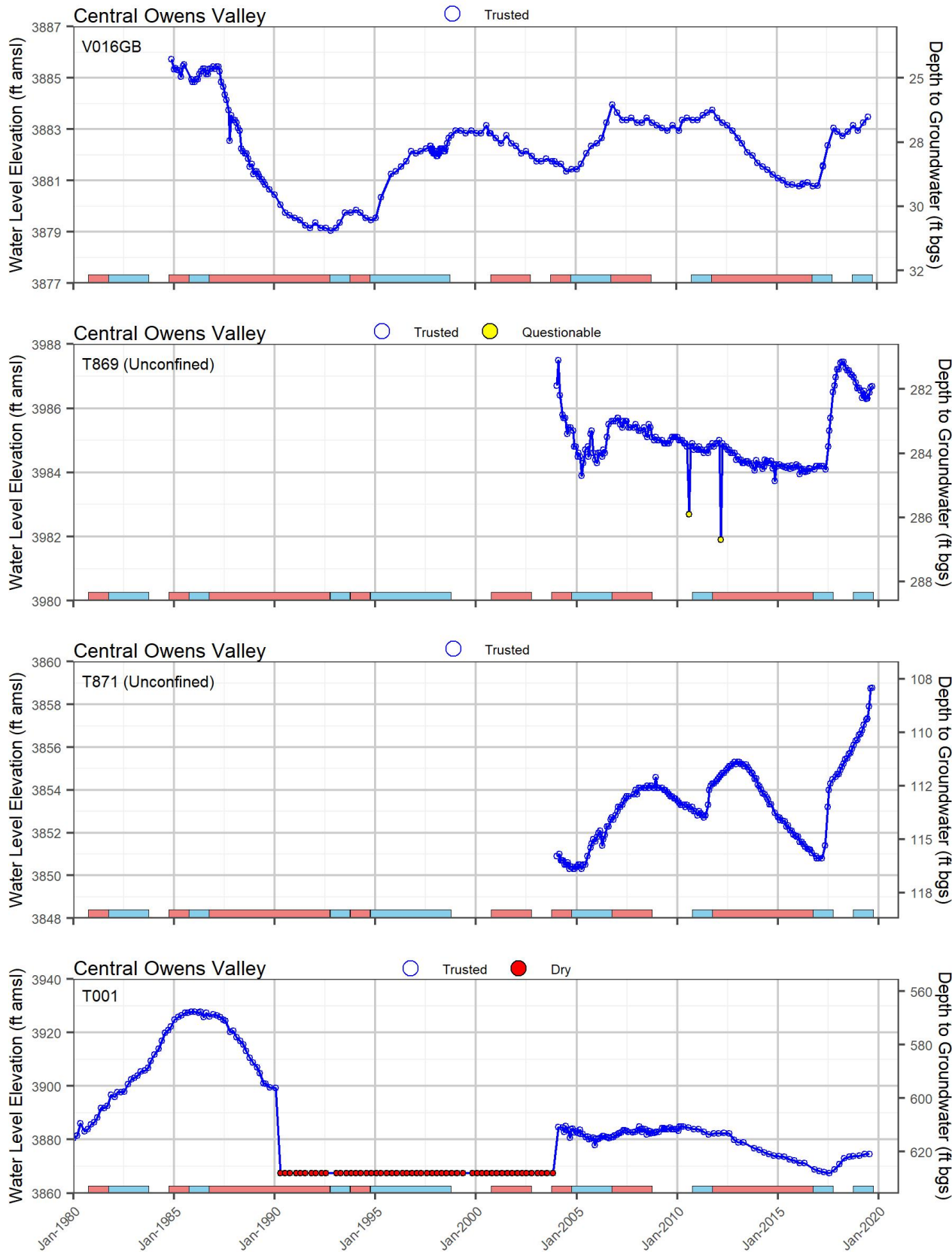




Notes:  
 1. Red and blue rectangles indicate dry and wet water years, respectively

MONITORING PLAN AND DATA GAPS ANALYSIS  
**Owens Valley Management Area**  
**Water Level Trends**

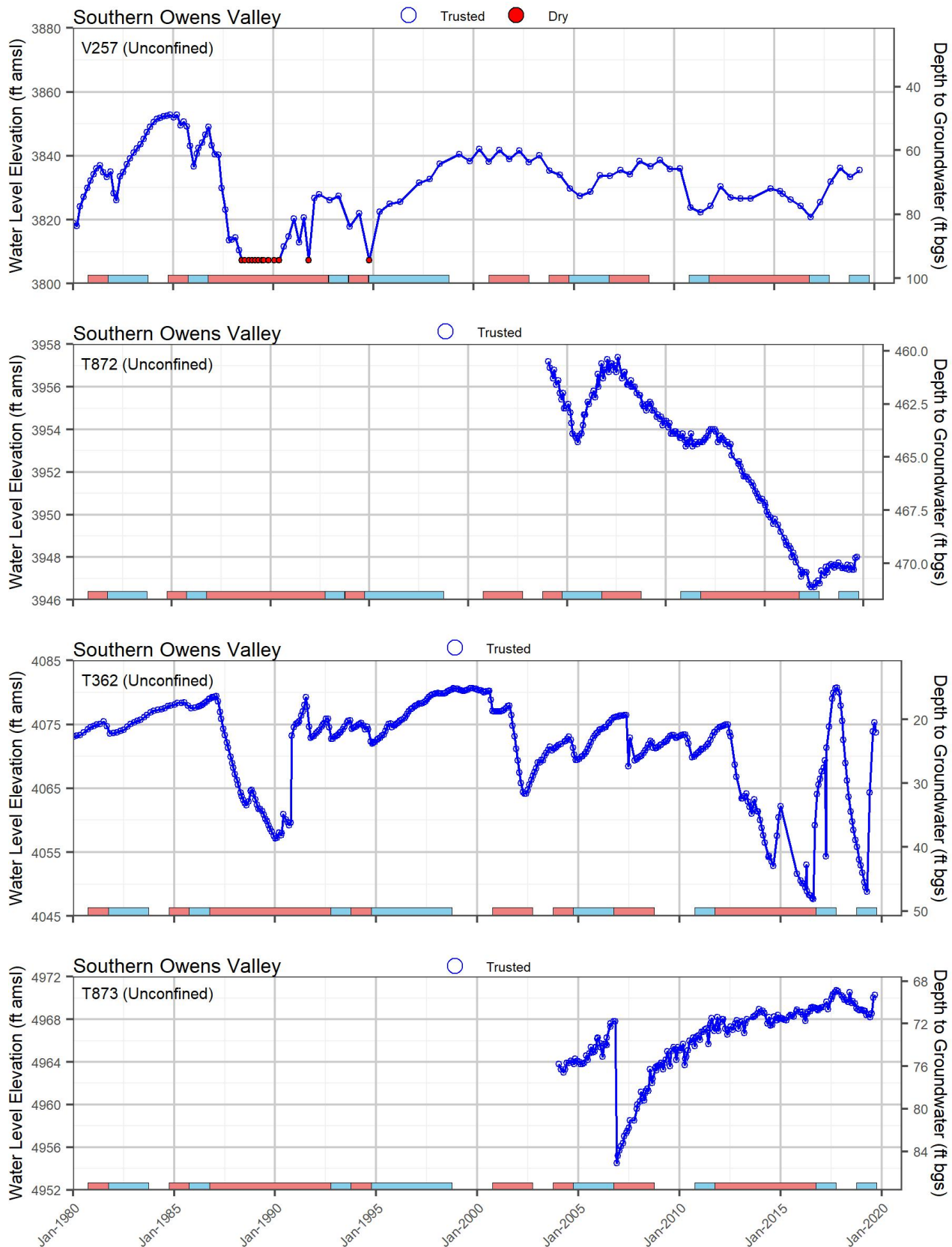




Notes:  
 1. Red and blue rectangles indicate dry and wet water years, respectively

MONITORING PLAN AND DATA GAPS ANALYSIS  
**Owens Valley Management Area**  
**Water Level Trends**



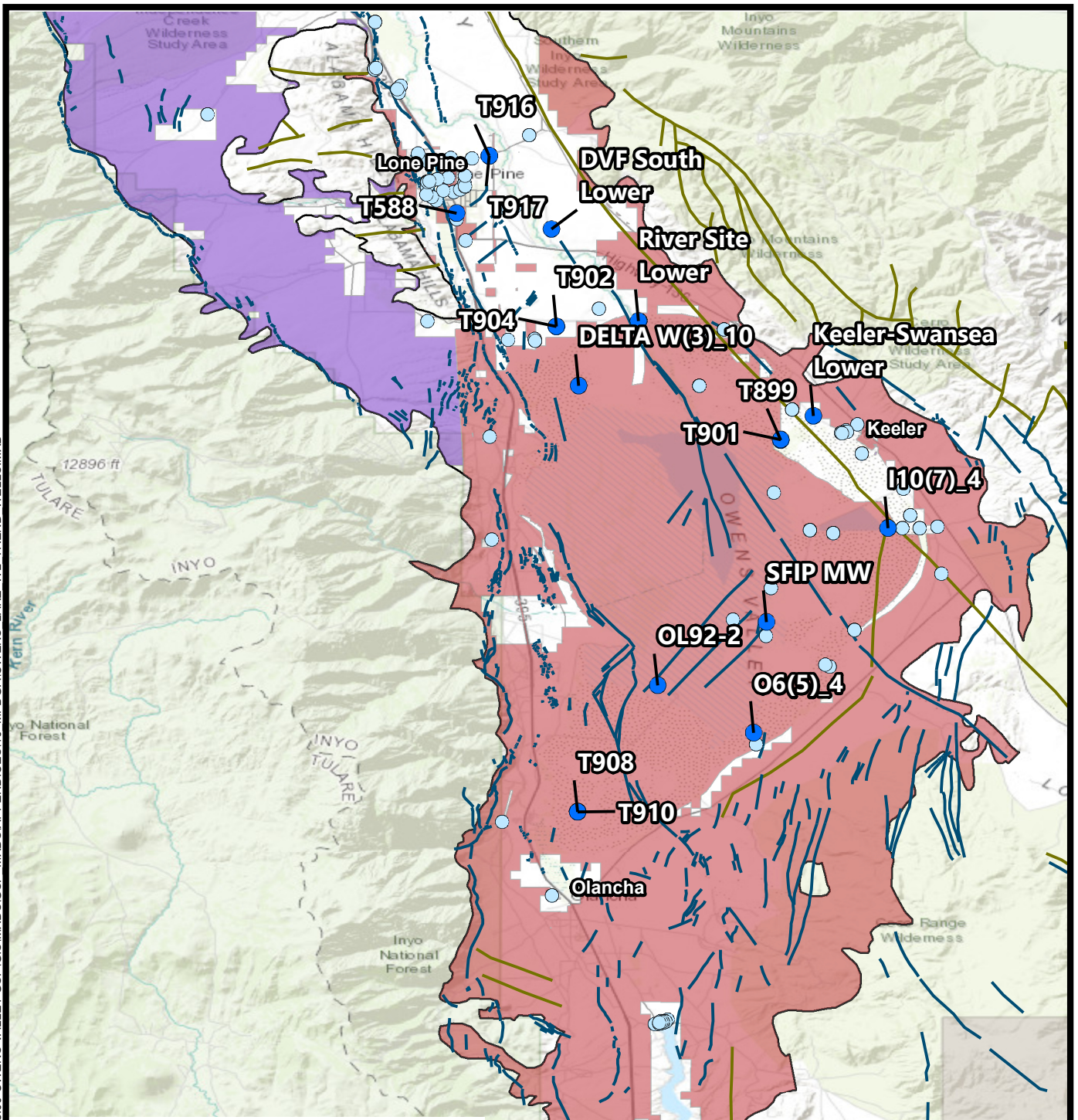


Notes:  
 1. Red and blue rectangles indicate dry and wet water years, respectively

MONITORING PLAN AND DATA GAPS ANALYSIS  
**Owens Valley Management Area**  
**Water Level Trends**

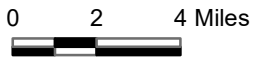


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**Explanation**

- Representative Monitoring Well/Piezometer
- Well/Piezometer with Water Level Data
- Quaternary Fault
- Pre-Quaternary Fault
- Groundwater Basin
- Management Area**
- Owens Valley
- Owens Lake



Source: USGS Geologic Hazards Science Center

**Notes:**

1. Wells with water levels collected after January 1st, 2010 shown
2. Wells with more than three observations shown

**MONITORING PLAN AND DATA GAPS ANALYSIS**  
**Owens Lake Water Levels**  
**Representative Monitoring Wells**



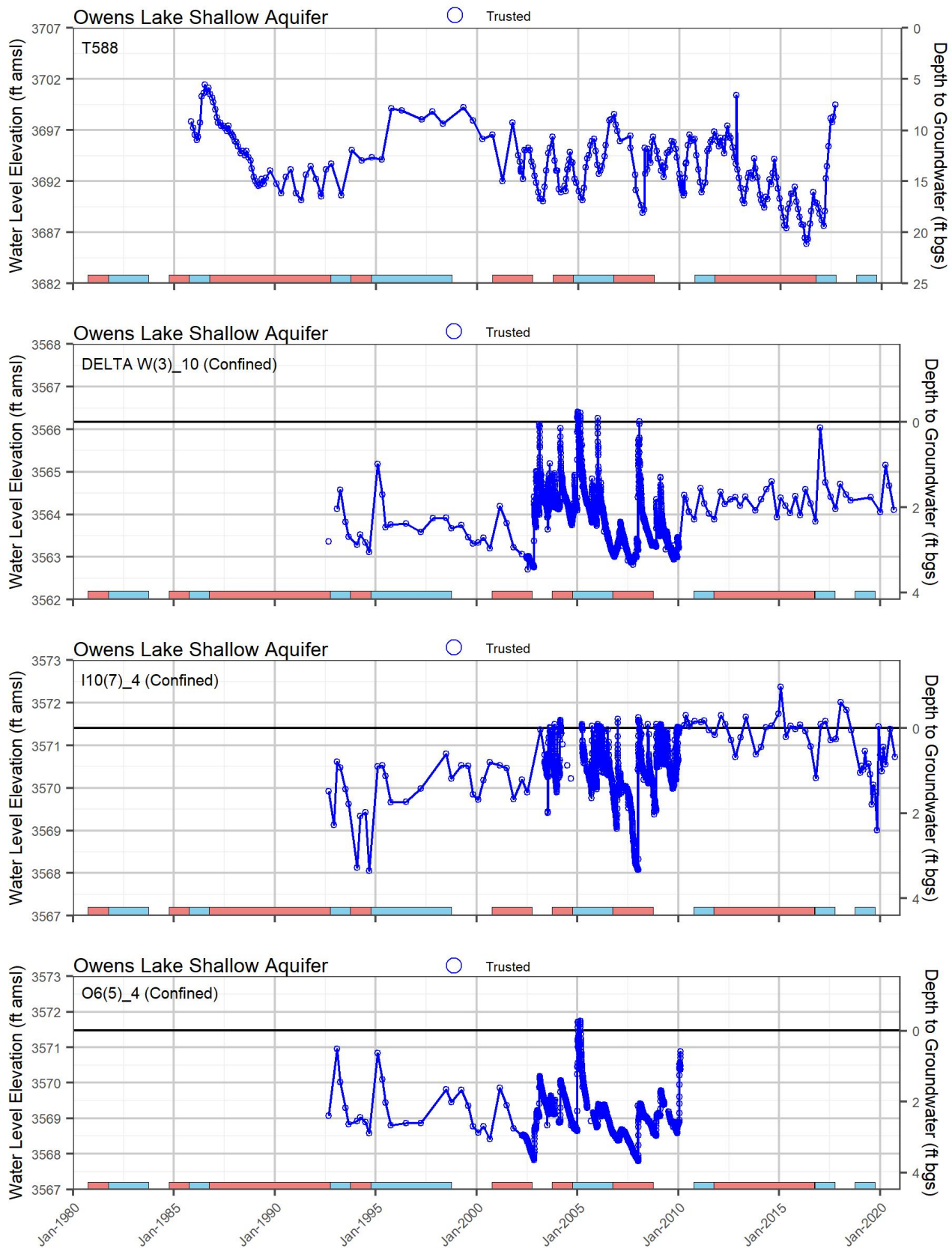
**DBS&A**

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5/12/2021 DB18.1418

Figure 4-5

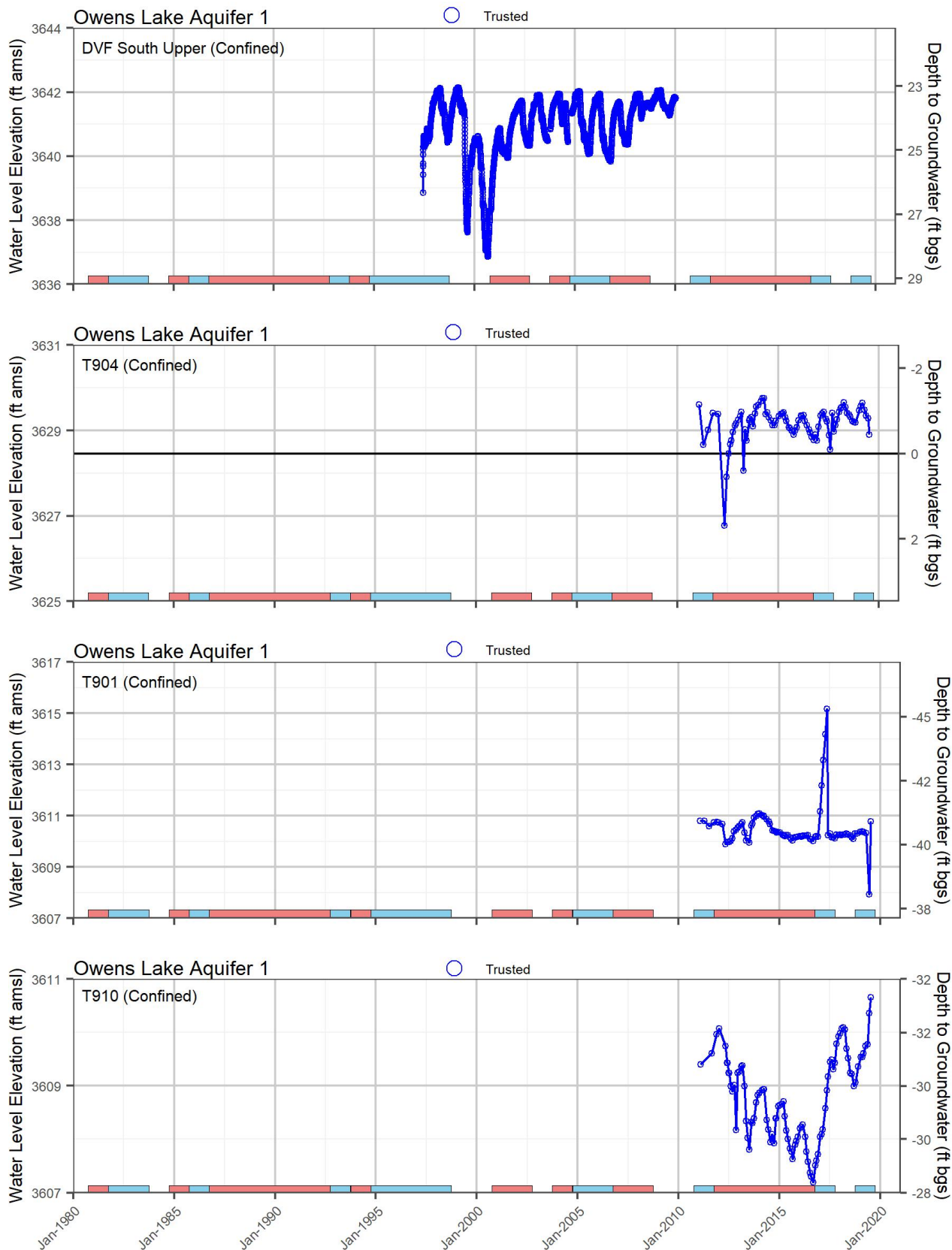




Notes:  
 1. Red and blue rectangles indicate dry and wet water years, respectively

MONITORING PLAN AND DATA GAPS ANALYSIS  
**Owens Lake Management Area**  
**Water Level Trends**

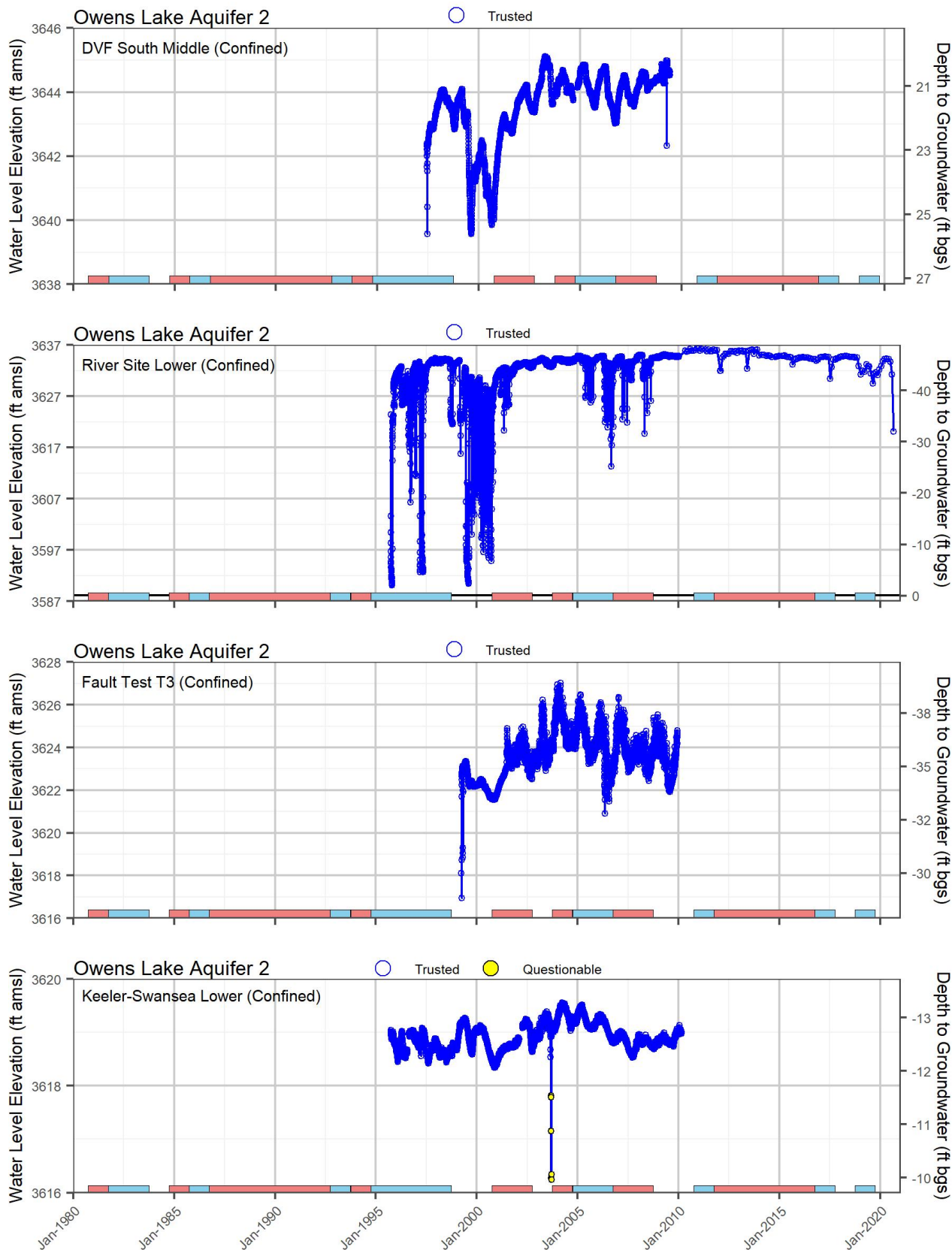




- Notes:
1. Red and blue rectangles indicate dry and wet water years, respectively

MONITORING PLAN AND DATA GAPS ANALYSIS  
**Owens Lake Management Area**  
**Water Level Trends**

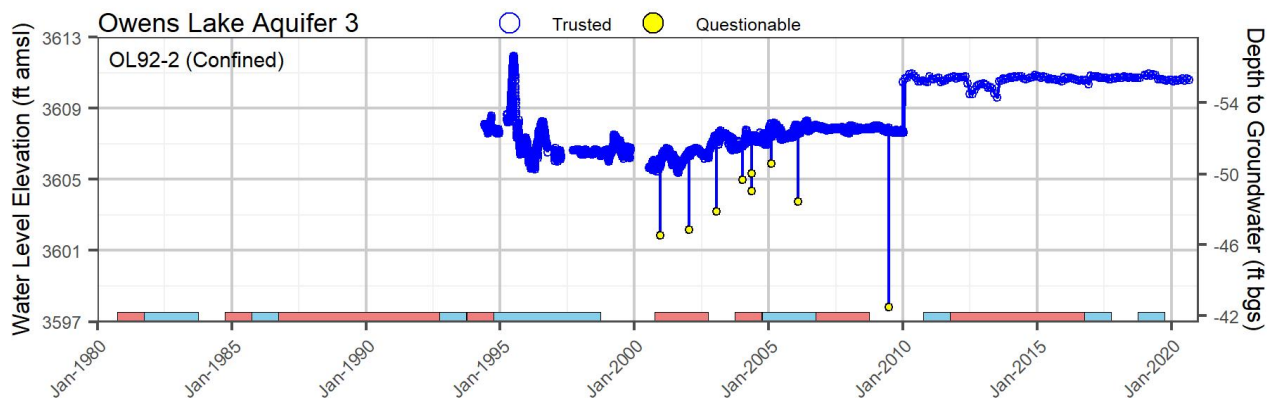
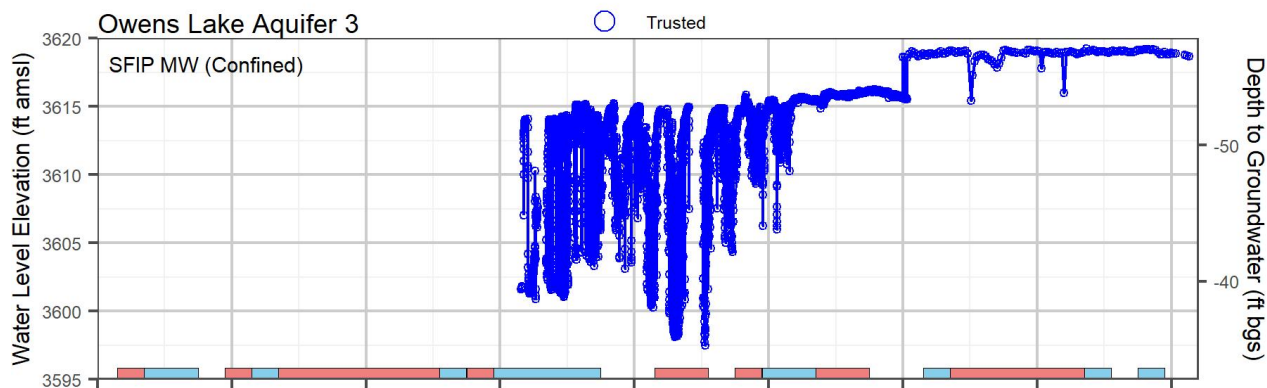
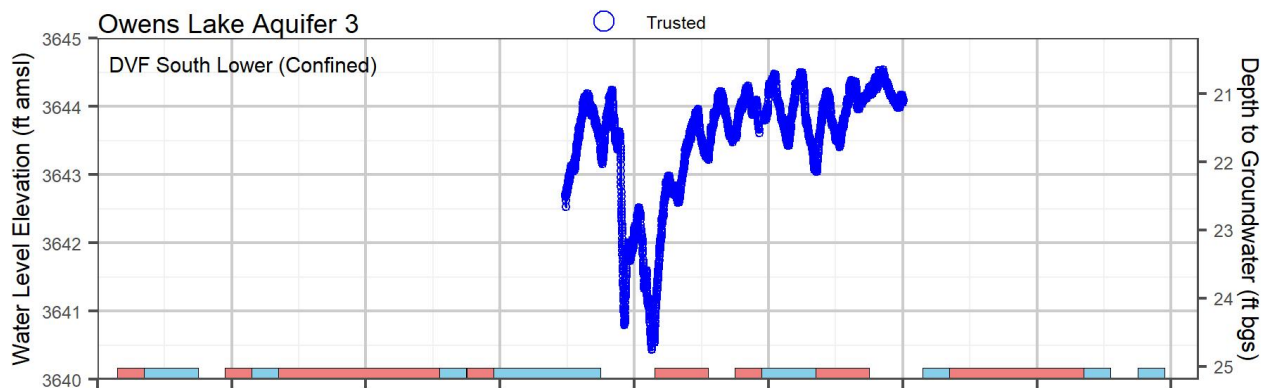
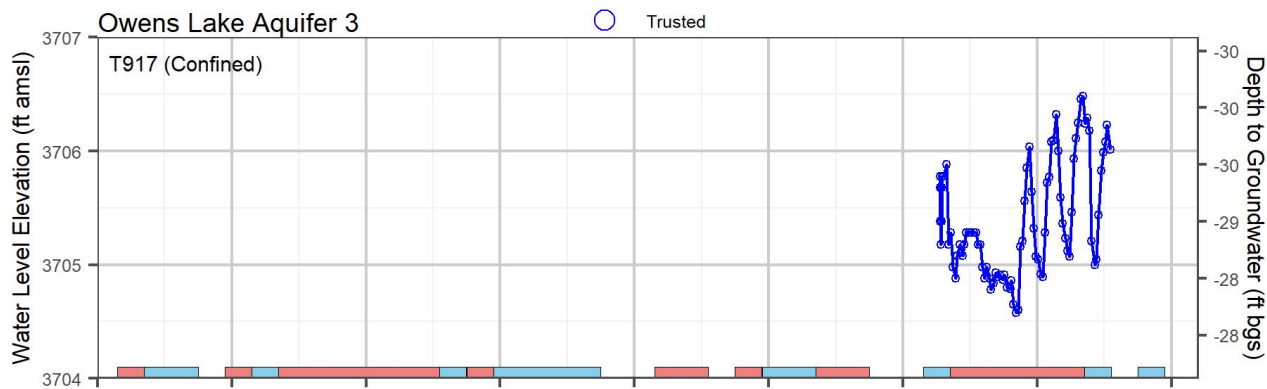




Notes:  
 1. Red and blue rectangles indicate dry and wet water years, respectively

MONITORING PLAN AND DATA GAPS ANALYSIS  
**Owens Lake Management Area**  
**Water Level Trends**

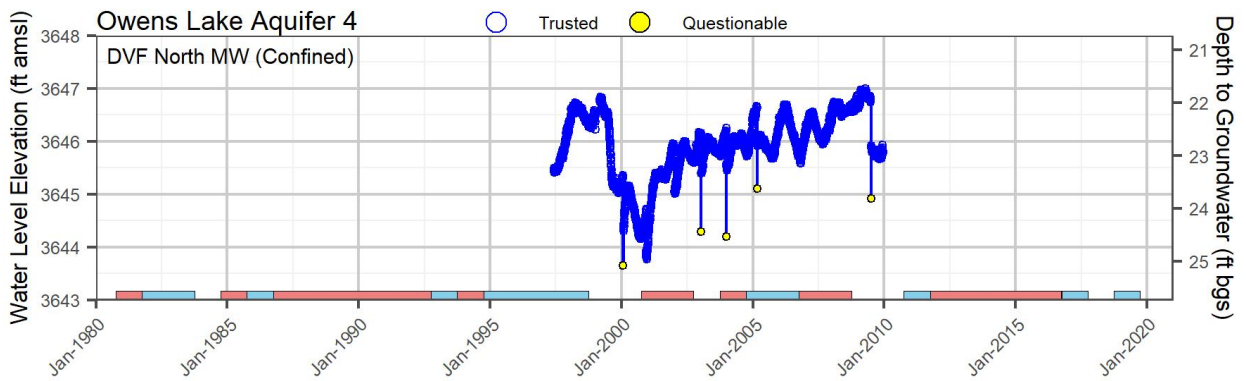




Notes:  
 1. Red and blue rectangles indicate dry and wet water years, respectively

MONITORING PLAN AND DATA GAPS ANALYSIS  
**Owens Lake Management Area**  
**Water Level Trends**





Notes:

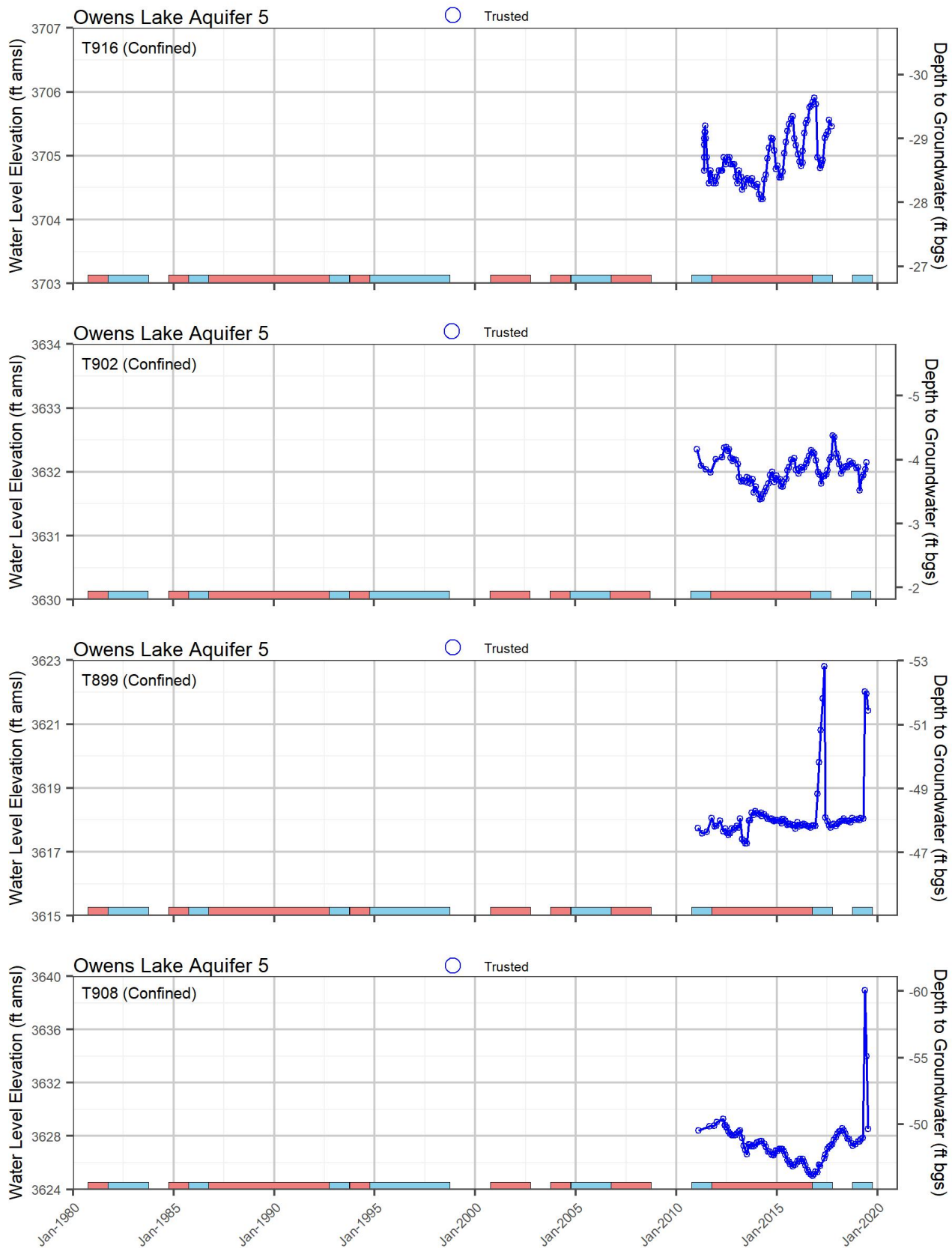
1. Red and blue rectangles indicate dry and wet water years, respectively



MONITORING PLAN AND DATA GAPS ANALYSIS  
**Owens Lake Management Area**  
**Water Level Trends**

Figure 4-6e

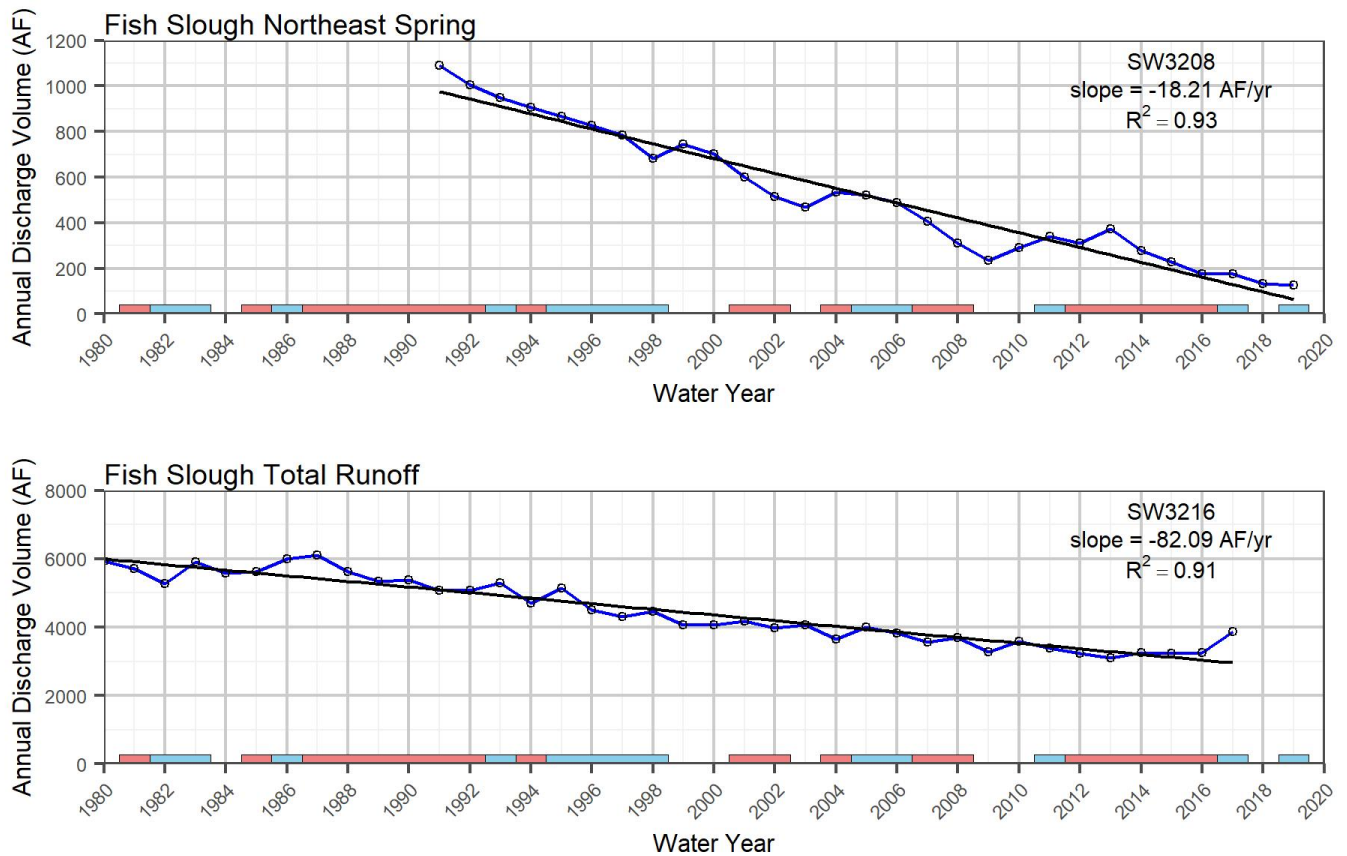




Notes:  
 1. Red and blue rectangles indicate dry and wet water years, respectively

MONITORING PLAN AND DATA GAPS ANALYSIS  
**Owens Lake Management Area**  
**Water Level Trends**





Notes:

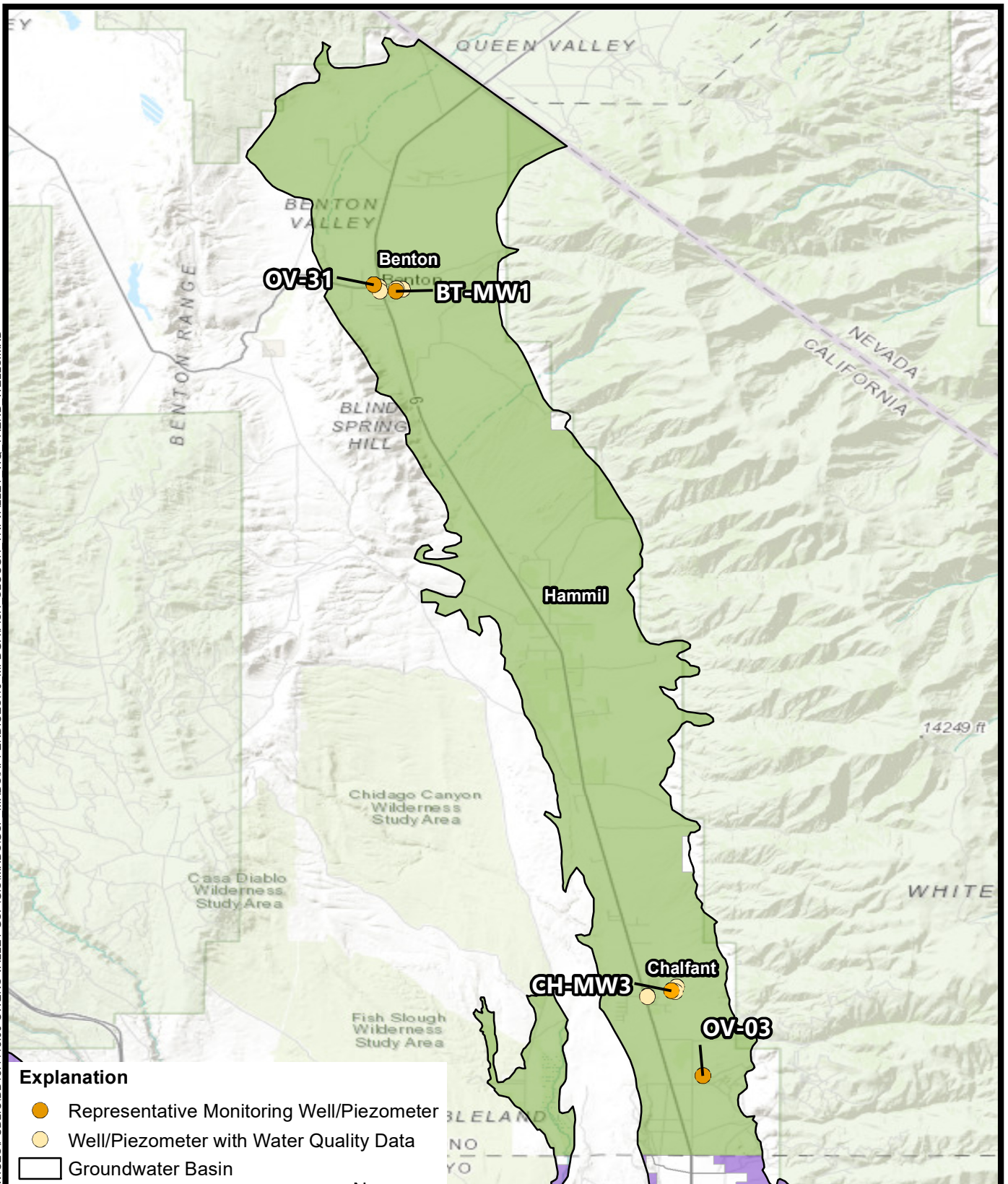
1. Red and blue rectangles indicate dry and wet water years, respectively



MONITORING PLAN AND DATA GAPS ANALYSIS  
**Fish Slough and Tri-Valley Management Area**  
**Spring Flow and Runoff Trends**

Figure 4-7

K:\PROJECTS\WATER RESOURCE SERVICES\PUBLIC\DB18.1418.00 OWENS VALLEY.GSP\GIS\MXD\SIGSP MXD\APPENDICES\10 MPDGA\FISH\_SLOUGH\_TRI-VALLEY\_WQ\_TREND\_WELLS.MXD



**Explanation**

- Representative Monitoring Well/Piezometer
- Well/Piezometer with Water Quality Data
- Groundwater Basin
- Management Area
- Fish Slough and Tri-Valley
- Owens Valley

**Notes:**

1. Locations sampled for arsenic, chloride, sodium, nitrate, and total dissolved solids (TDS) shown
2. Wells with observations after January 1, 2010 shown
3. Wells with fewer than three observations omitted

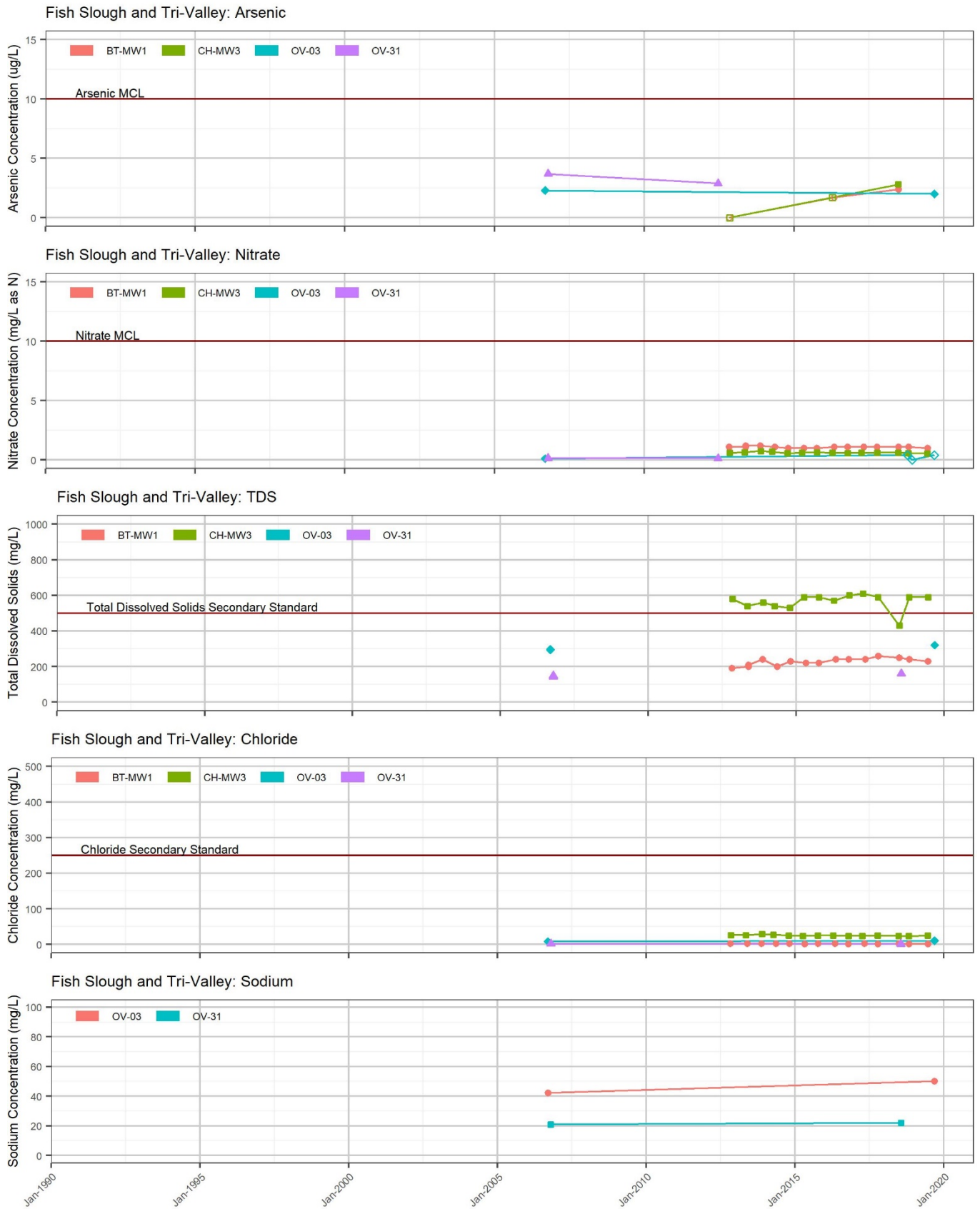


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 5/12/2021 DB18.1418

**MONITORING PLAN AND DATA GAPS ANALYSIS**  
**Fish Slough and Tri-Valley Water Quality**  
**Representative Monitoring Wells**

Figure 4-8

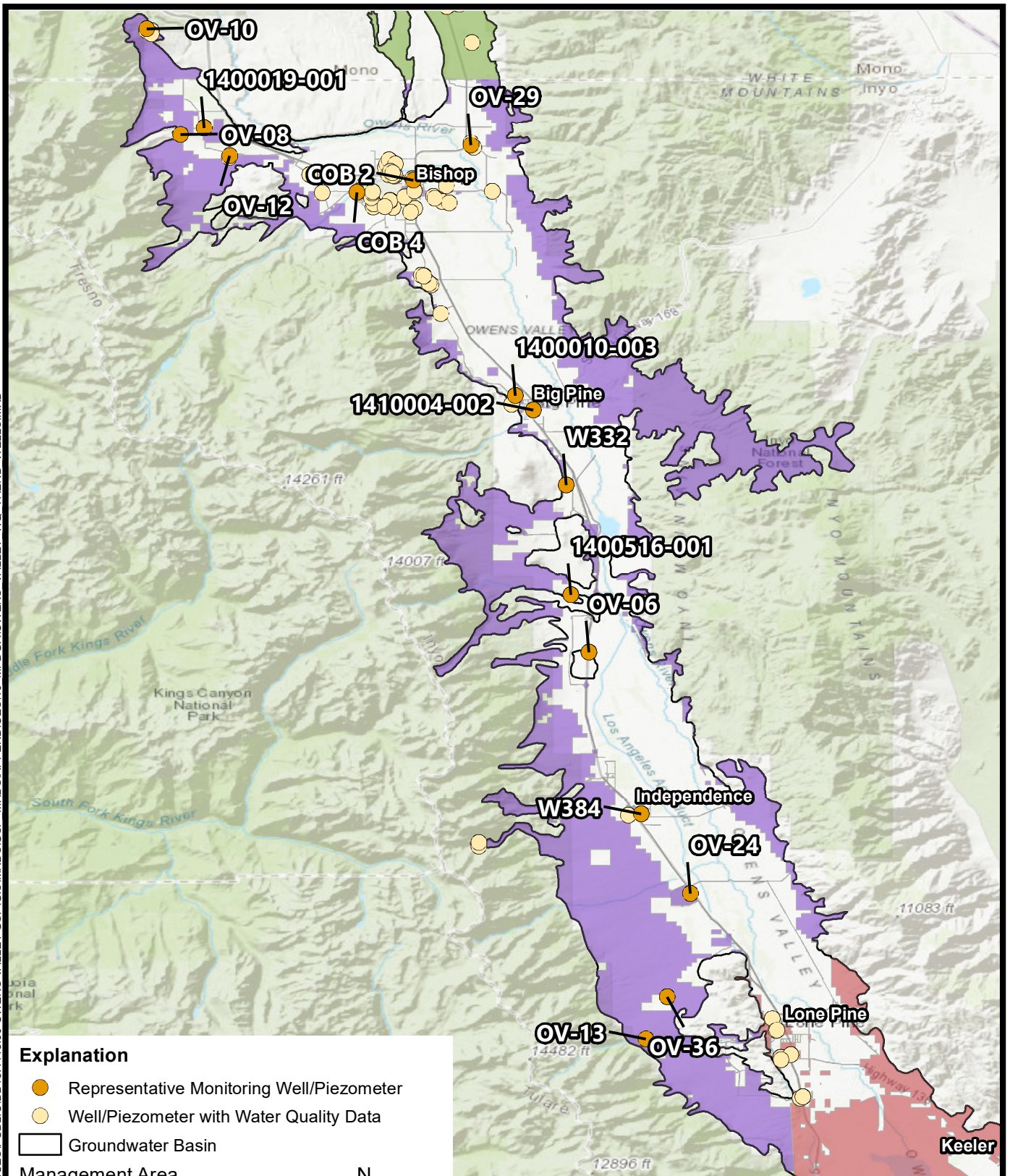




Notes:  
 1. Non-detects plotted as open symbols at the reporting limit

MONITORING PLAN AND DATA GAPS ANALYSIS  
**Fish Slough and Tri-Valley Management Area**  
**Water Quality Trends**

K:\PROJECTS\WATER RESOURCE SERVICES\PUBLIC\DB18.1418.00 OWENS VALLEY.GSP\GIS\MXD\SIGSP MXD\APPENDICES\10 MPDGA\OWENS VALLEY\_WQ\_TREND\_WELLS.MXD

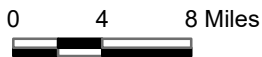


**Explanation**

- Representative Monitoring Well/Piezometer
- Well/Piezometer with Water Quality Data
- Groundwater Basin
- Fish Slough and Tri-Valley
- Owens Valley
- Owens Lake

**Management Area**

- Fish Slough and Tri-Valley
- Owens Valley
- Owens Lake



**Notes:**

1. Locations sampled for arsenic, chloride, sodium, nitrate, and total dissolved solids (TDS) shown
2. Wells with observations after January 1, 2010 shown
3. Wells with fewer than three observations omitted

**MONITORING PLAN AND DATA GAPS ANALYSIS**

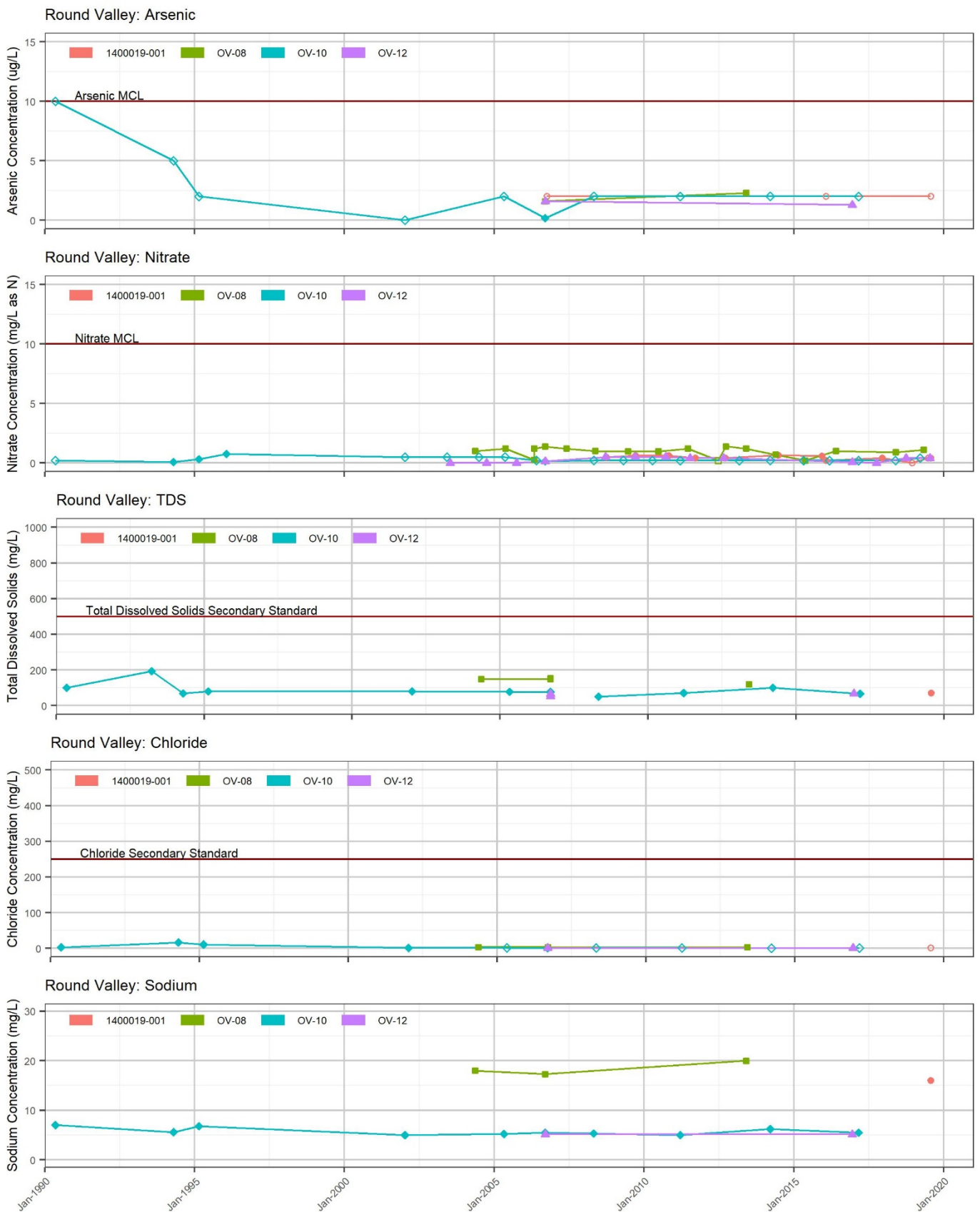
**Owens Valley Water Quality Representative Monitoring Wells**



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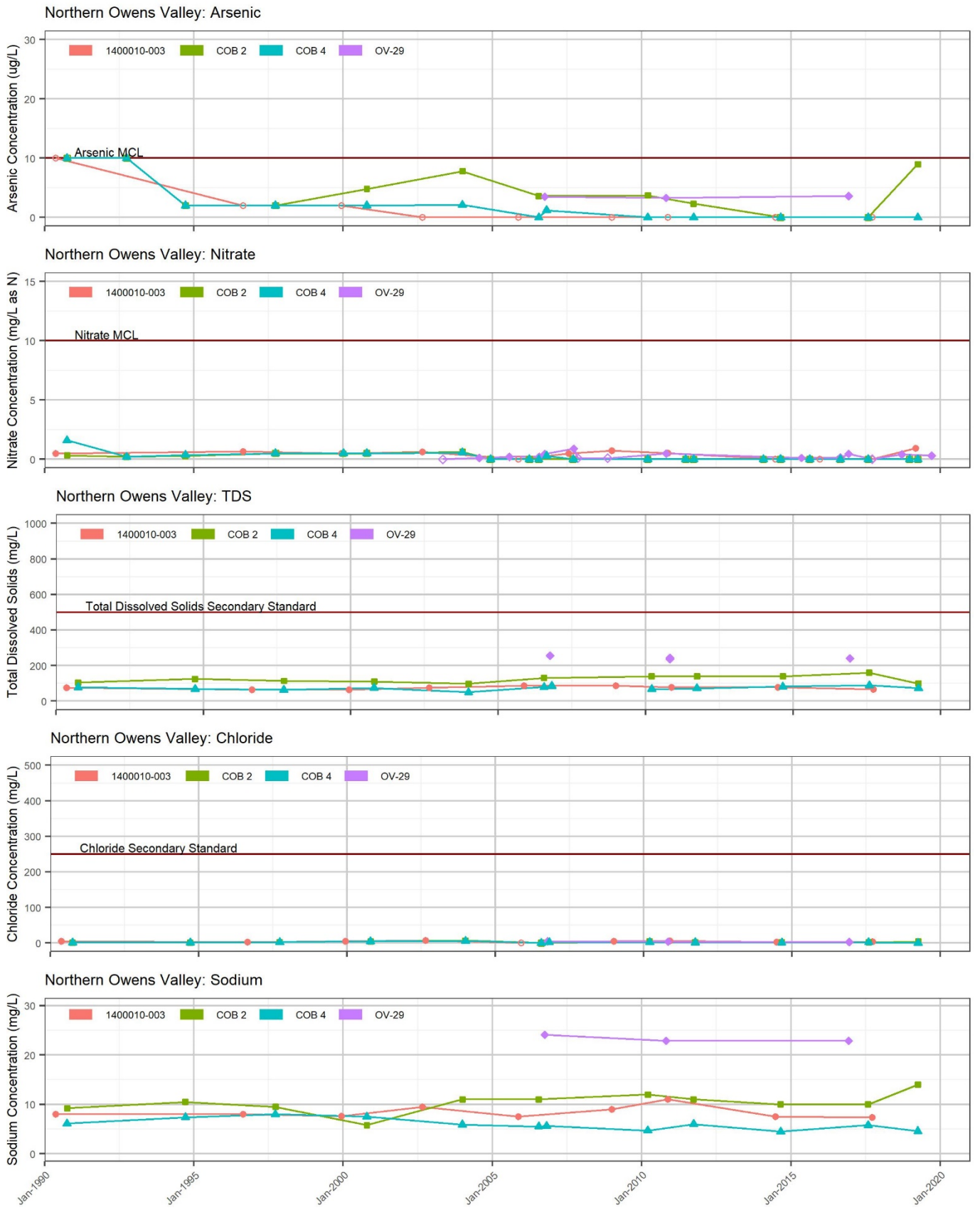
Figure 4-10





Notes:  
 1. Non-detects plotted as open symbols at the reporting limit

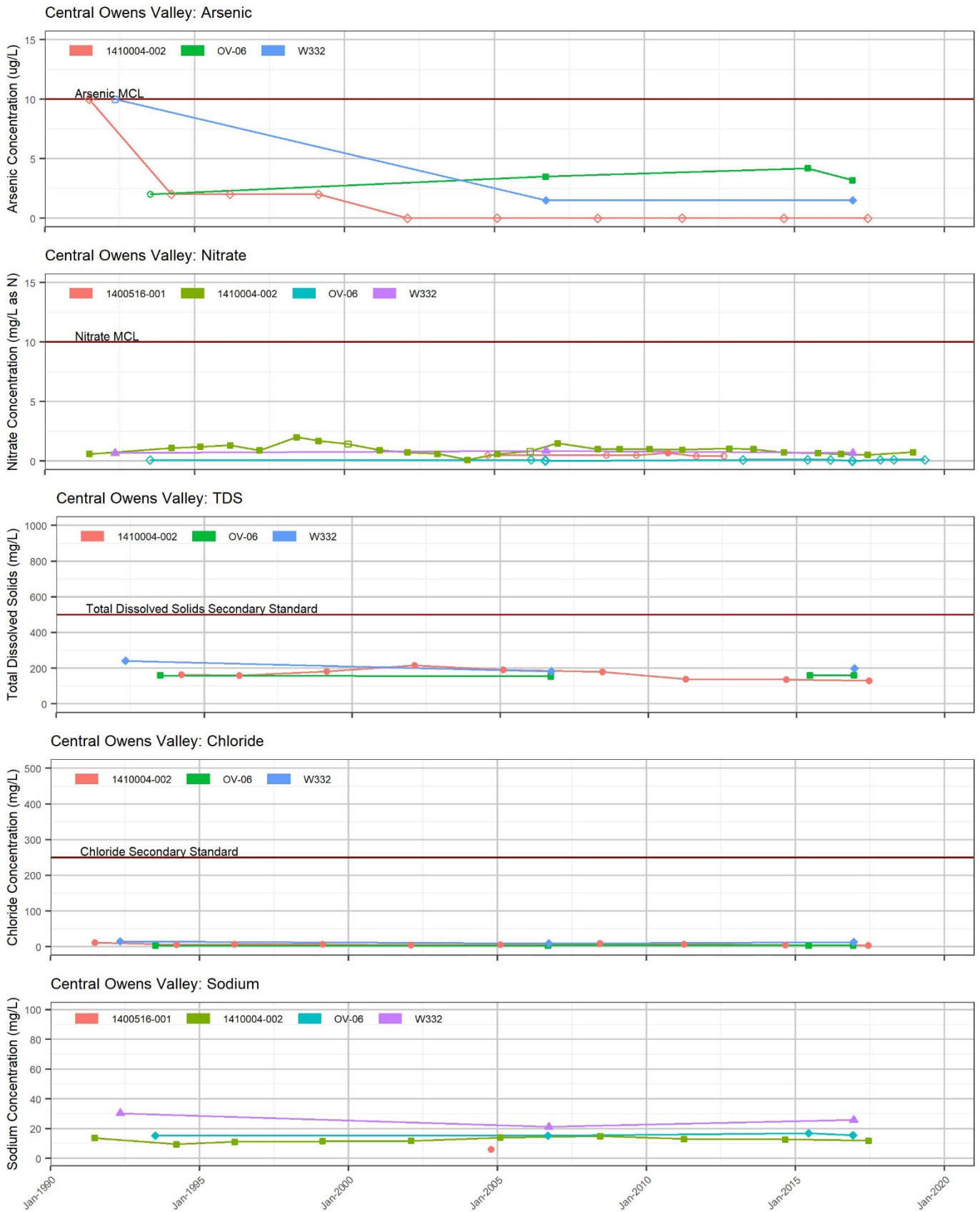
MONITORING PLAN AND DATA GAPS ANALYSIS  
**Owens Valley Management Area**  
**Water Quality Trends**



Notes:  
 1. Non-detects plotted as open symbols at the reporting limit

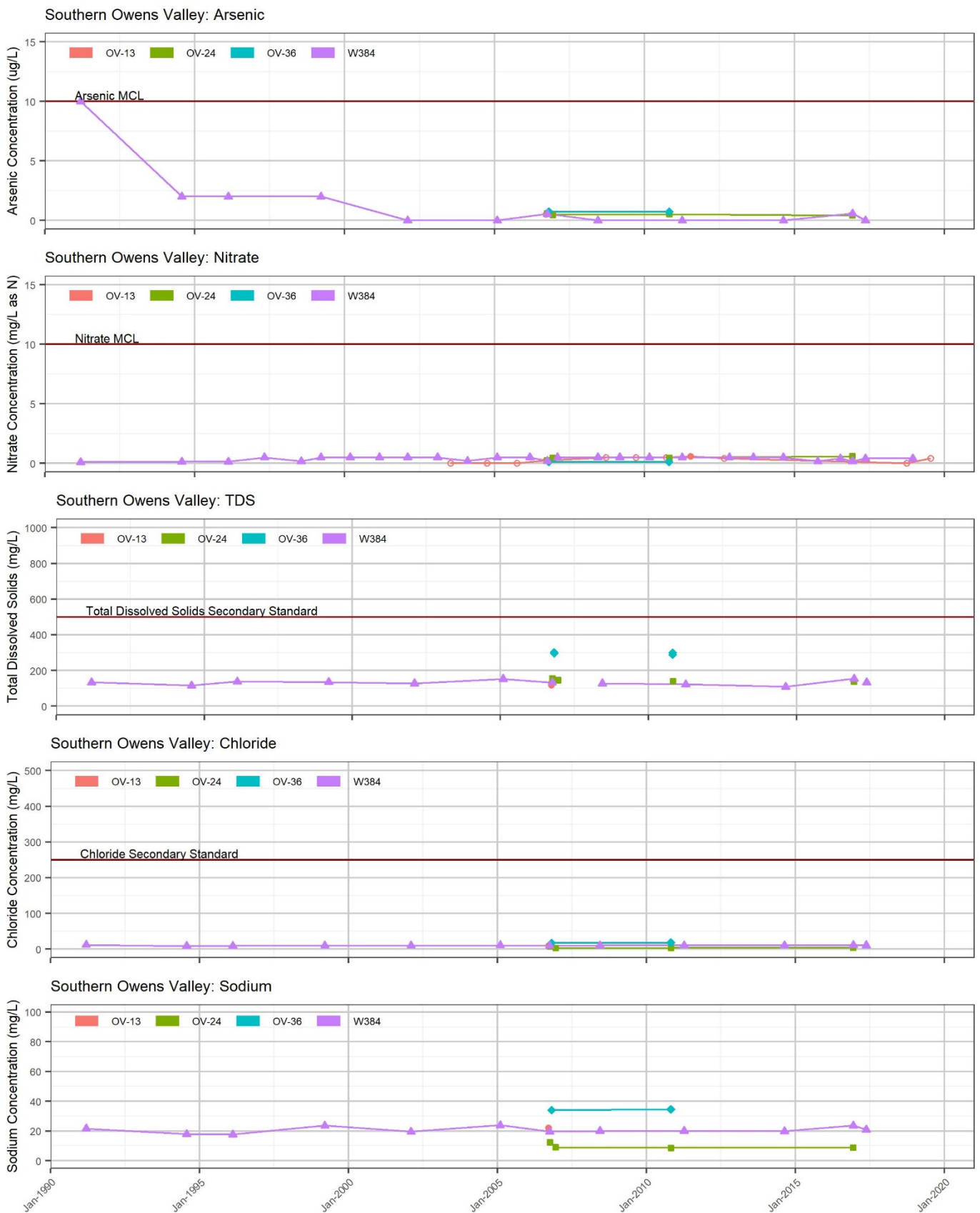
MONITORING PLAN AND DATA GAPS ANALYSIS  
**Owens Valley Management Area**  
**Water Quality Trends**





Notes:  
 1. Non-detects plotted as open symbols at the reporting limit

MONITORING PLAN AND DATA GAPS ANALYSIS  
**Owens Valley Management Area**  
**Water Quality Trends**

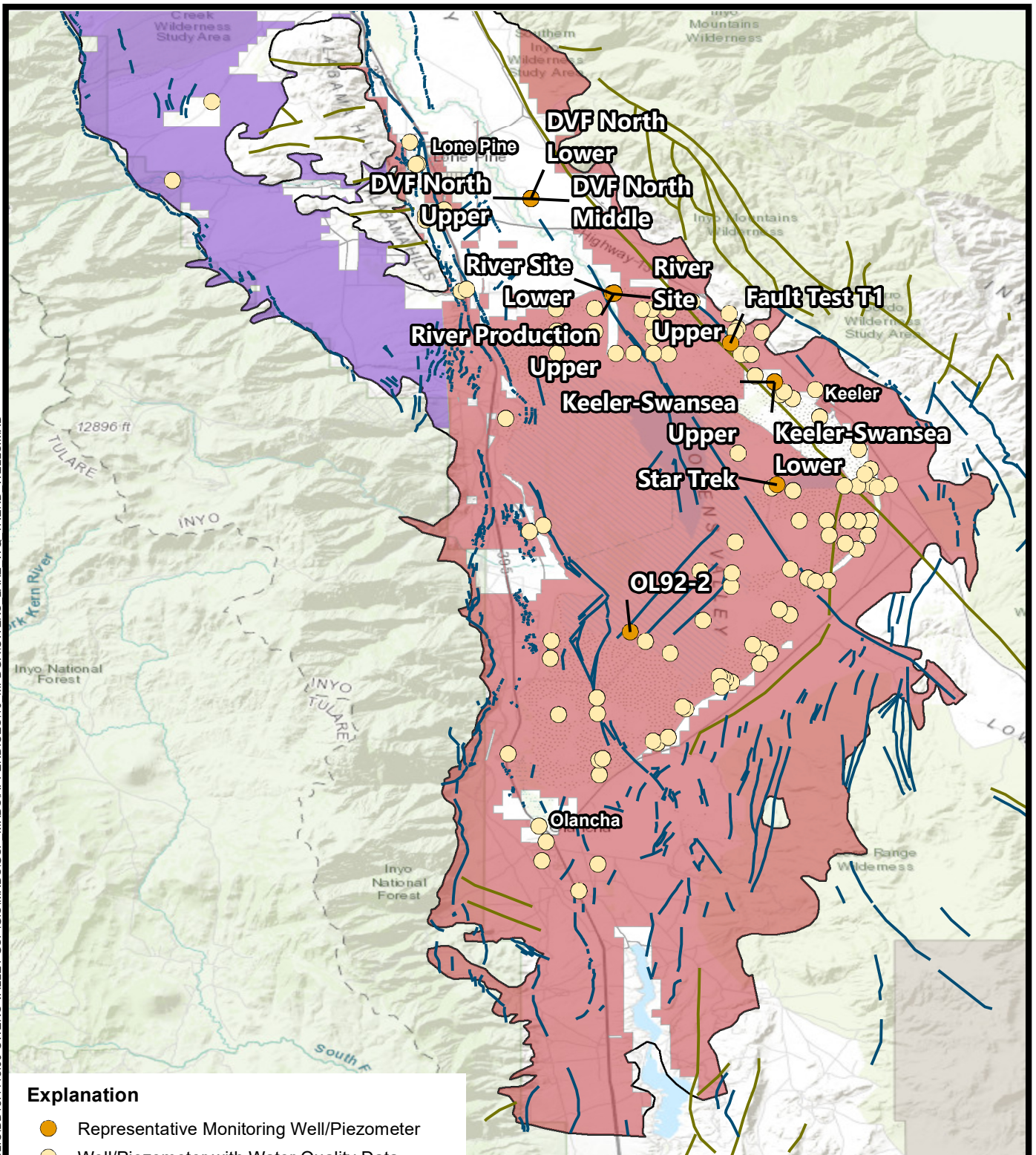


Notes:  
 1. Non-detects plotted as open symbols at the reporting limit

MONITORING PLAN AND DATA GAPS ANALYSIS  
**Owens Valley Management Area**  
**Water Quality Trends**



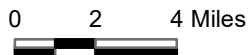
K:\PROJECTS\WATER\_RESOURCE\_SERVICES\PUBLIC\DB18.1418.00 OWENS VALLEY.GSP\GIS\MXD\SIGSP\_MXD\APPENDICES\10\_MPDGA\OWENS\_LAKE\_WQ\_TREND\_WELLS.MXD



Source: USGS Geologic Hazards Science Center

**Explanation**

- Representative Monitoring Well/Piezometer
- Well/Piezometer with Water Quality Data
- Quaternary Fault
- Pre-Quaternary Fault
- Groundwater Basin
- Management Area**
- Owens Valley
- Owens Lake



**Notes:**

1. Locations sampled for arsenic, chloride, sodium, nitrate, and total dissolved solids (TDS) shown
2. Wells with observations after January 1, 2000 shown
3. Wells with fewer than three observations omitted

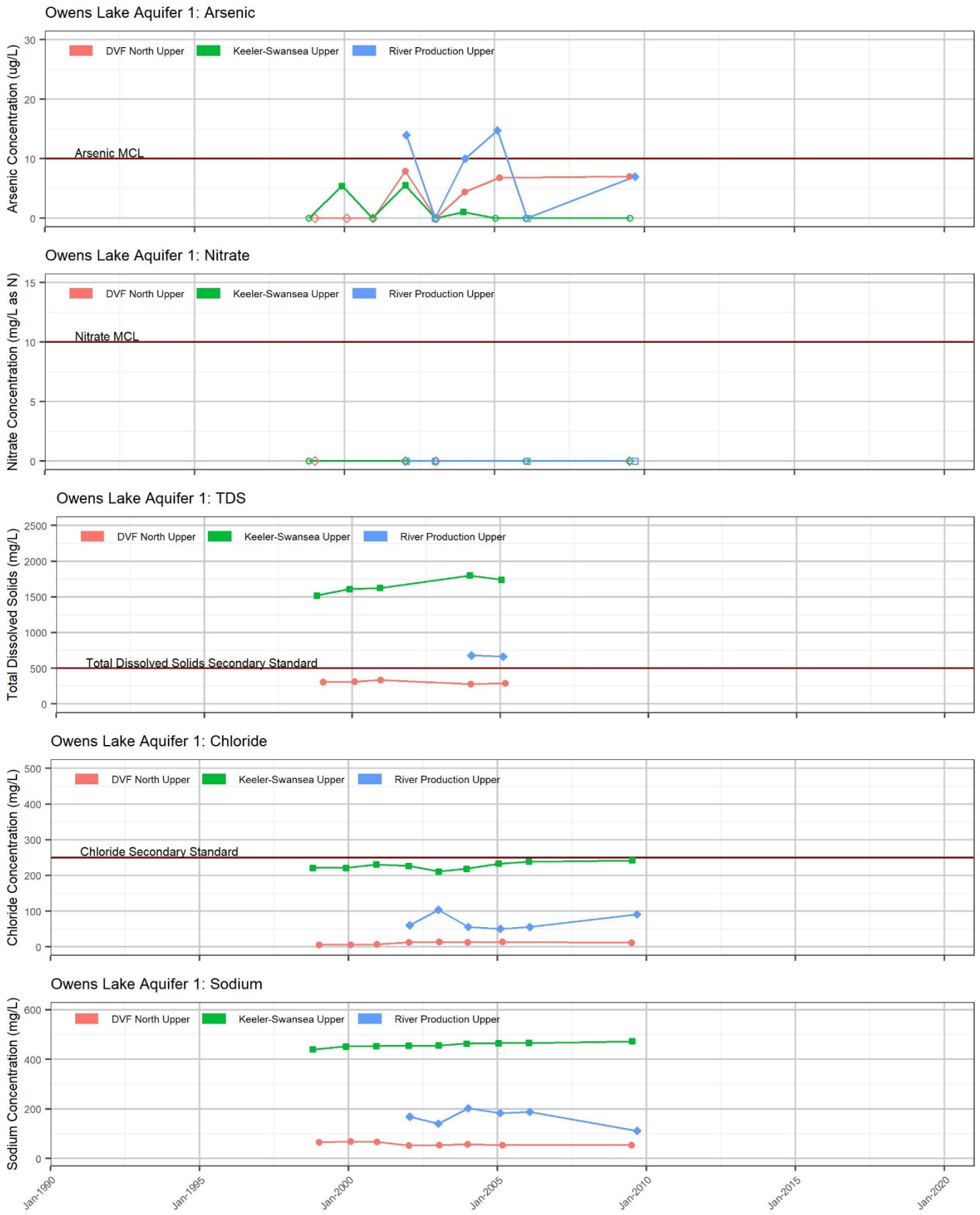
**MONITORING PLAN AND DATA GAPS ANALYSIS**

**Owens Lake Water Quality Representative Monitoring Wells**



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Figure 4-12

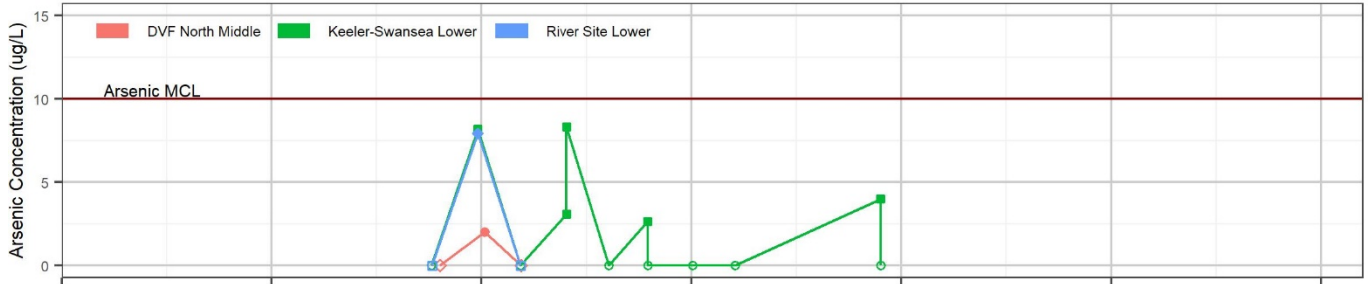


Notes:  
 1. Non-detects plotted as open symbols at the reporting limit

MONITORING PLAN AND DATA GAPS ANALYSIS  
**Owens Lake Management Area**  
**Water Quality Trends**



Owens Lake Aquifer 2: Arsenic



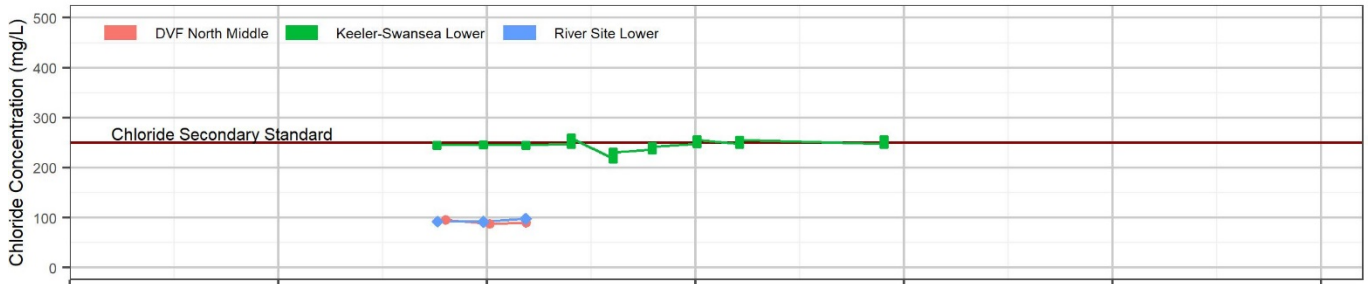
Owens Lake Aquifer 2: Nitrate



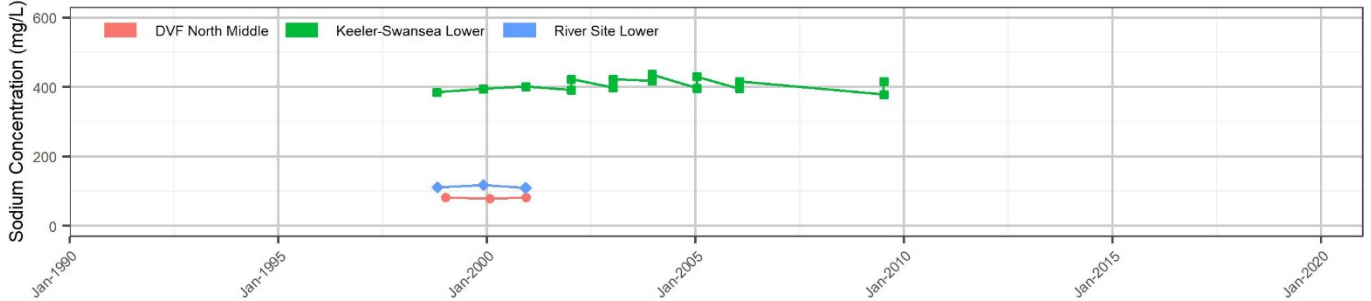
Owens Lake Aquifer 2: TDS



Owens Lake Aquifer 2: Chloride

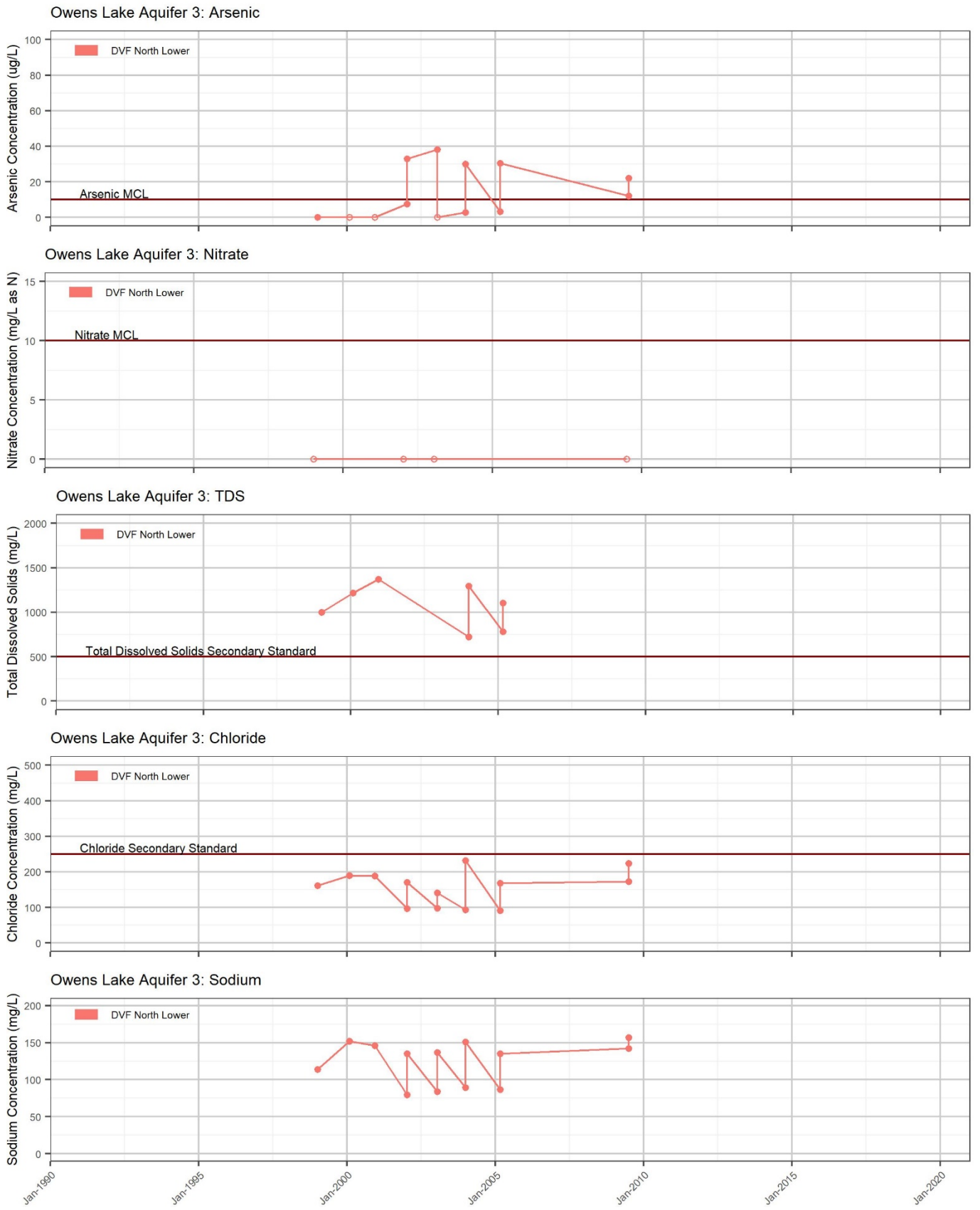


Owens Lake Aquifer 2: Sodium



Notes:  
 1. Non-detects plotted as open symbols at the reporting limit

MONITORING PLAN AND DATA GAPS ANALYSIS  
**Owens Lake Management Area**  
**Water Quality Trends**



Notes:  
 1. Non-detects plotted as open symbols at the reporting limit

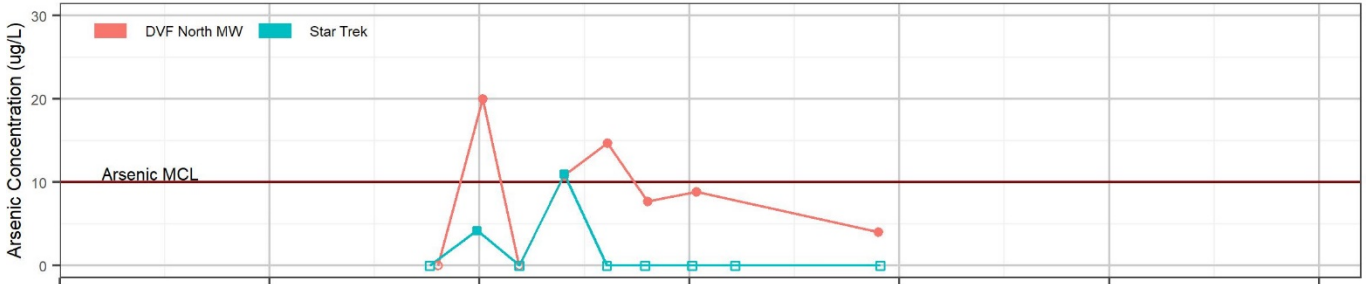
**MONITORING PLAN AND DATA GAPS ANALYSIS**  
**Owens Lake Management Area**  
**Water Quality Trends**



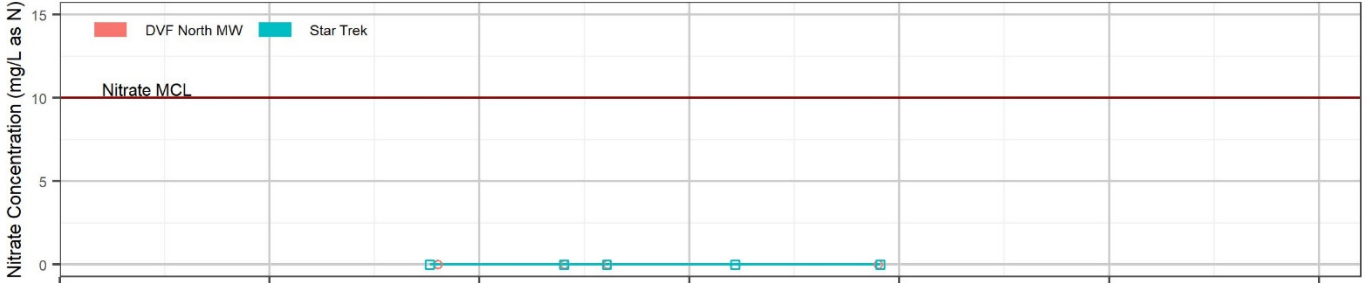
Figure 4-13c



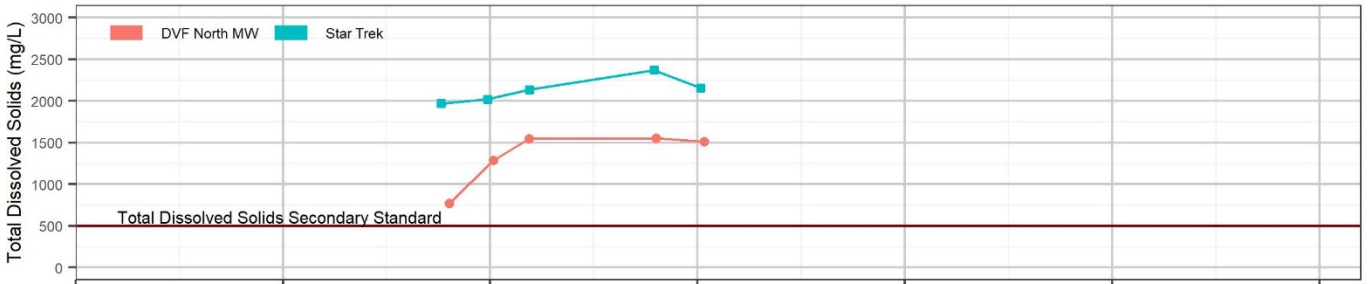
Owens Lake Aquifer 4: Arsenic



Owens Lake Aquifer 4: Nitrate



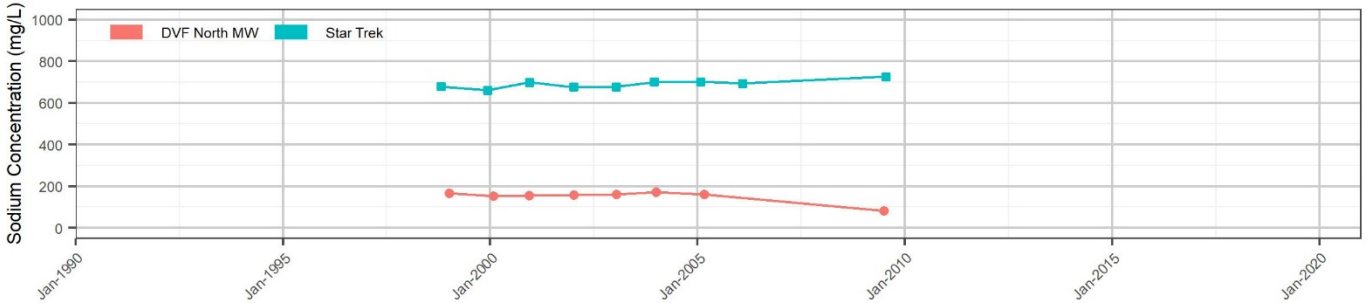
Owens Lake Aquifer 4: TDS



Owens Lake Aquifer 4: Chloride

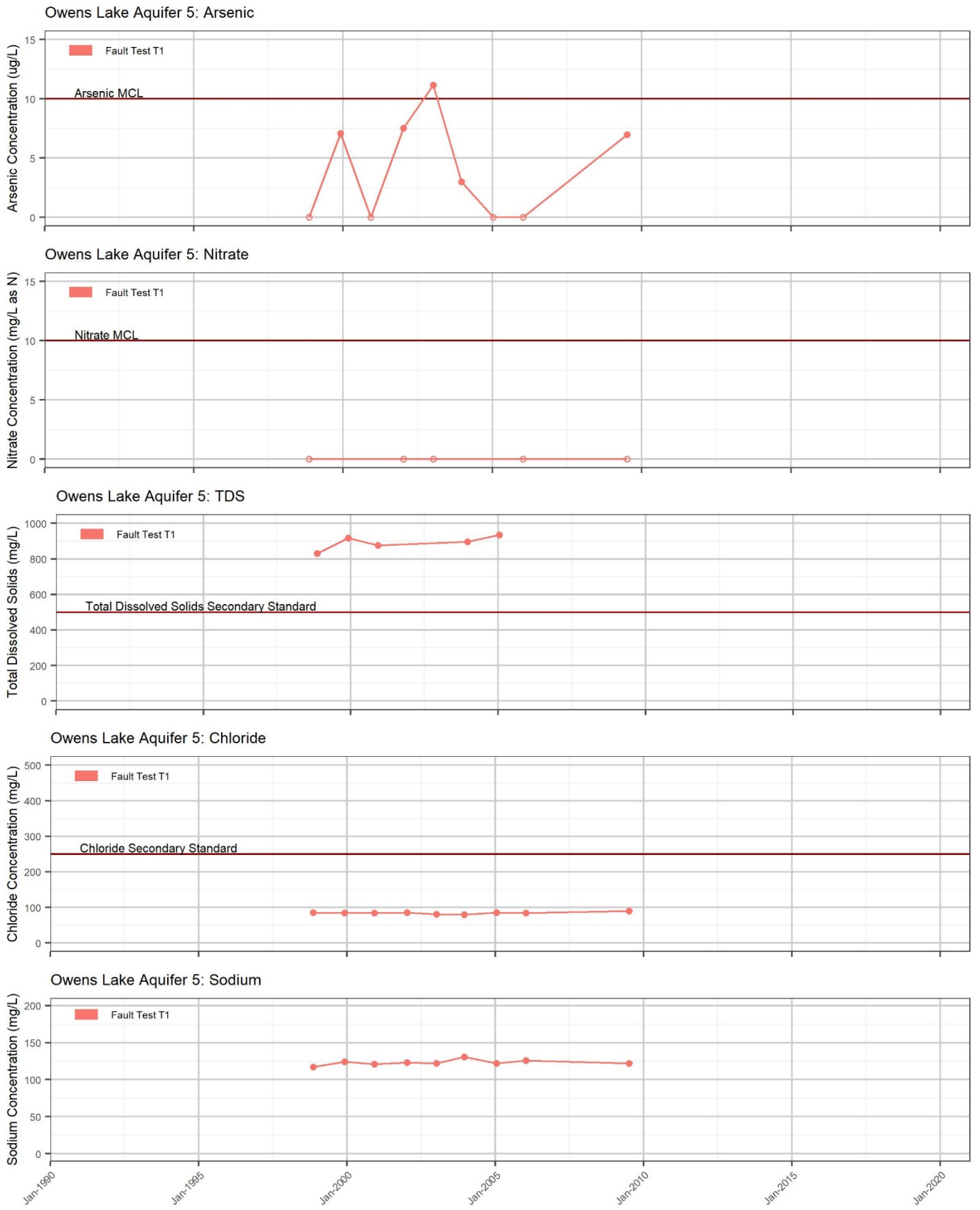


Owens Lake Aquifer 4: Sodium



Notes:  
1. Non-detects plotted as open symbols at the reporting limit

MONITORING PLAN AND DATA GAPS ANALYSIS  
**Owens Lake Management Area**  
**Water Quality Trends**



Notes:  
 1. Non-detects plotted as open symbols at the reporting limit

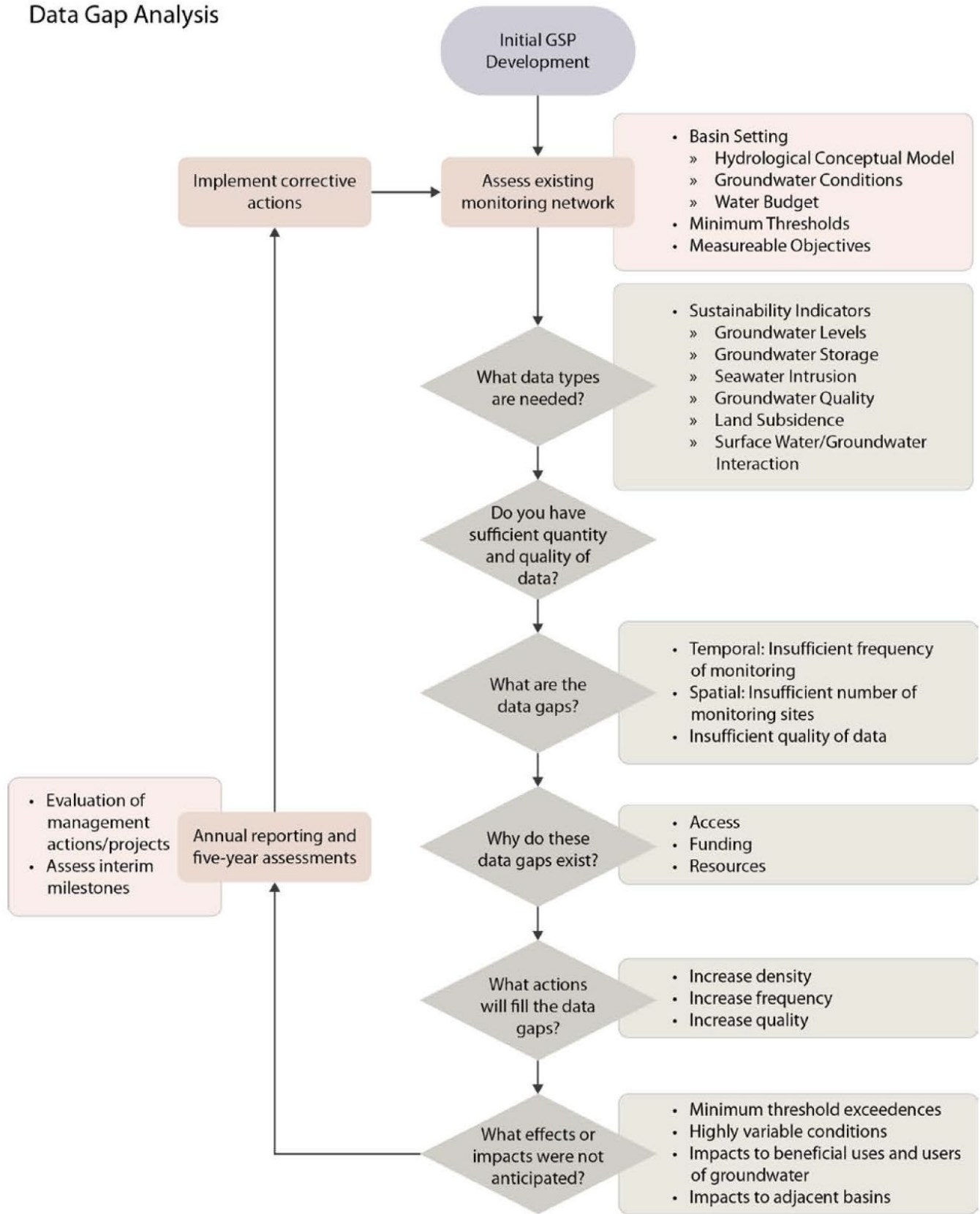
MONITORING PLAN AND DATA GAPS ANALYSIS  
**Owens Lake Management Area**  
**Water Quality Trends**



Figure 4-13e



# Data Gap Analysis

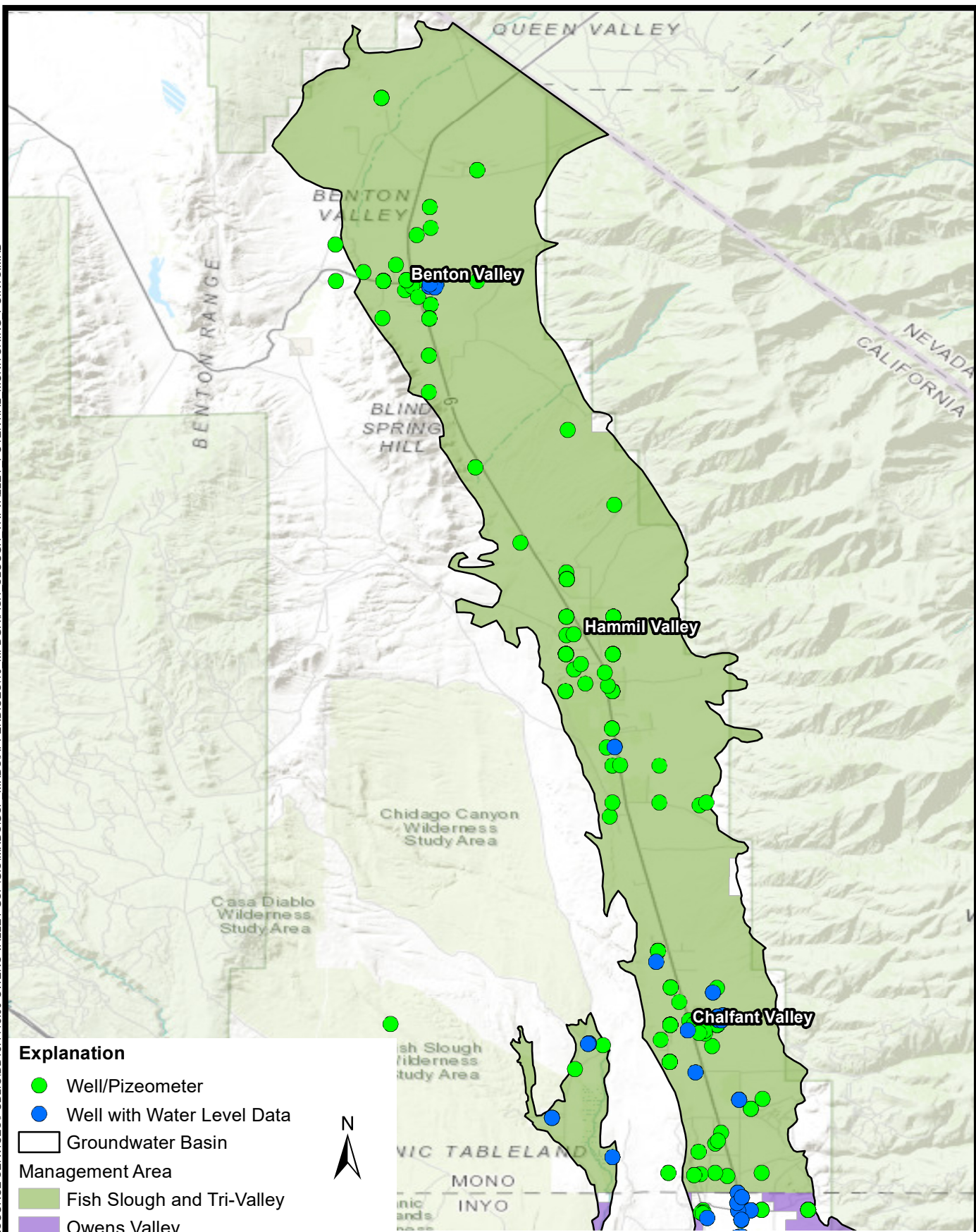


**Notes:**

1. Figure 4 from DWR BMP#2: Monitoring Networks and Identification of Data Gaps

## MONITORING PLAN AND DATA GAPS ANALYSIS Data Gaps Analysis Flow Chart

K:\PROJECTS\WATER RESOURCE SERVICES\PUBLIC\DB18.1418.00 OWENS VALLEY.GSP\GIS\MXD\SIGSP\_MXD\APPENDICES\10\_MPDGA\FISH\_SLOUGH\_TRI-VALLEY\_POTENTIAL\_MONITORING\_POINTS.MXD



MONITORING PLAN AND DATA GAPS ANALYSIS  
**Fish Slough and Tri-Valley  
 Potential Monitoring Points**

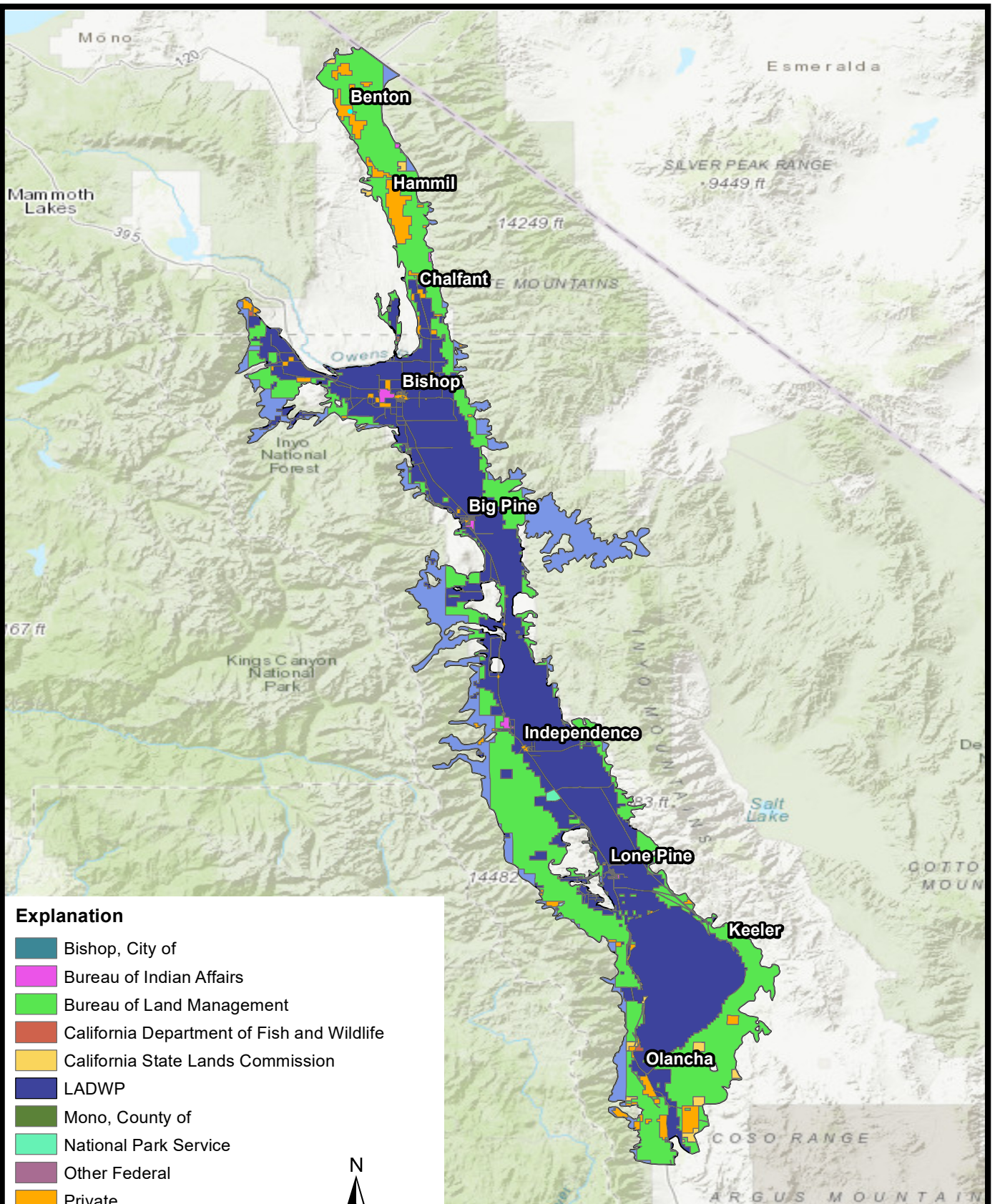


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Figure 6-1



K:\PROJECTS\WATER RESOURCE SERVICES\PUBLIC\DB18.1418.00 OWENS VALLEY GSP\GIS\MXD\SIGSP MXD\APPENDICES\10 MPDGA\OWENS VALLEY LAND OWNERSHIP.MXD



Source: CAL FIRE California Land Ownership (2020)

**Explanation**

- Bishop, City of
- Bureau of Indian Affairs
- Bureau of Land Management
- California Department of Fish and Wildlife
- California State Lands Commission
- LADWP
- Mono, County of
- National Park Service
- Other Federal
- Private
- USDA Forest Service
- Unknown Federal
- Groundwater Basin

0 5 10 20 Miles



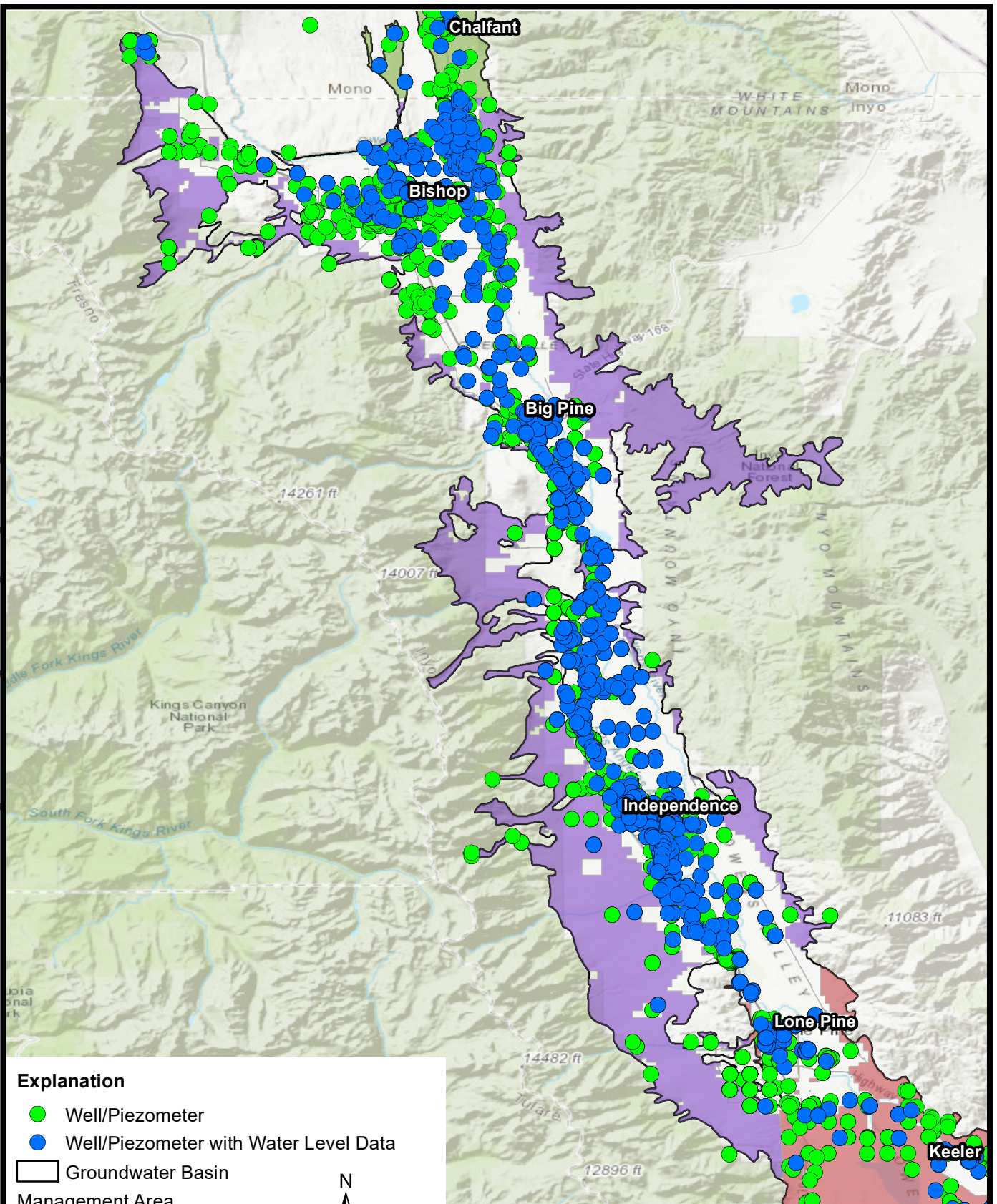
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5/12/2021 DB18.1418

**MONITORING PLAN AND DATA GAPS ANALYSIS  
Owens Valley Land Ownership**

Figure 6-2



K:\PROJECTS\WATER RESOURCE SERVICES\PUBLIC\DB18.1418.00 OWENS VALLEY GSP\IGIS\MXD\SIGSP\_MXD\APPENDICES\10\_MPDGAOWENS VALLEY POTENTIAL MONITORING POINTS.MXD



**Explanation**

- Well/Piezometer
- Well/Piezometer with Water Level Data
- Groundwater Basin
- Management Area**
- Fish Slough and Tri-Valley
- Owens Valley
- Owens Lake



0 4 8 Miles

**MONITORING PLAN AND DATA GAPS ANALYSIS**  
**Owens Valley Management Area**  
**Potential Monitoring Points**



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Figure 6-3