

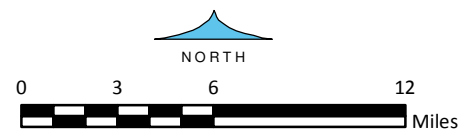
**LOCATION OF MUNICIPAL GROUNDWATER PUMPING**

- EXPLANATION**
- Municipal Groundwater Pumping Cell
  - ▭ Paso Robles Groundwater Basin Model Domain
  - ▭ Paso Robles Groundwater Basin Model Active Area
  - ▭ Paso Robles Groundwater Basin Model Inactive Area
- (Source: Fugro, ETIC Engineers and Cleath, 2005)
- County Boundary

19-Dec-14

Prepared by: DWB. Map Projection: State Plane 1983, Zone V.

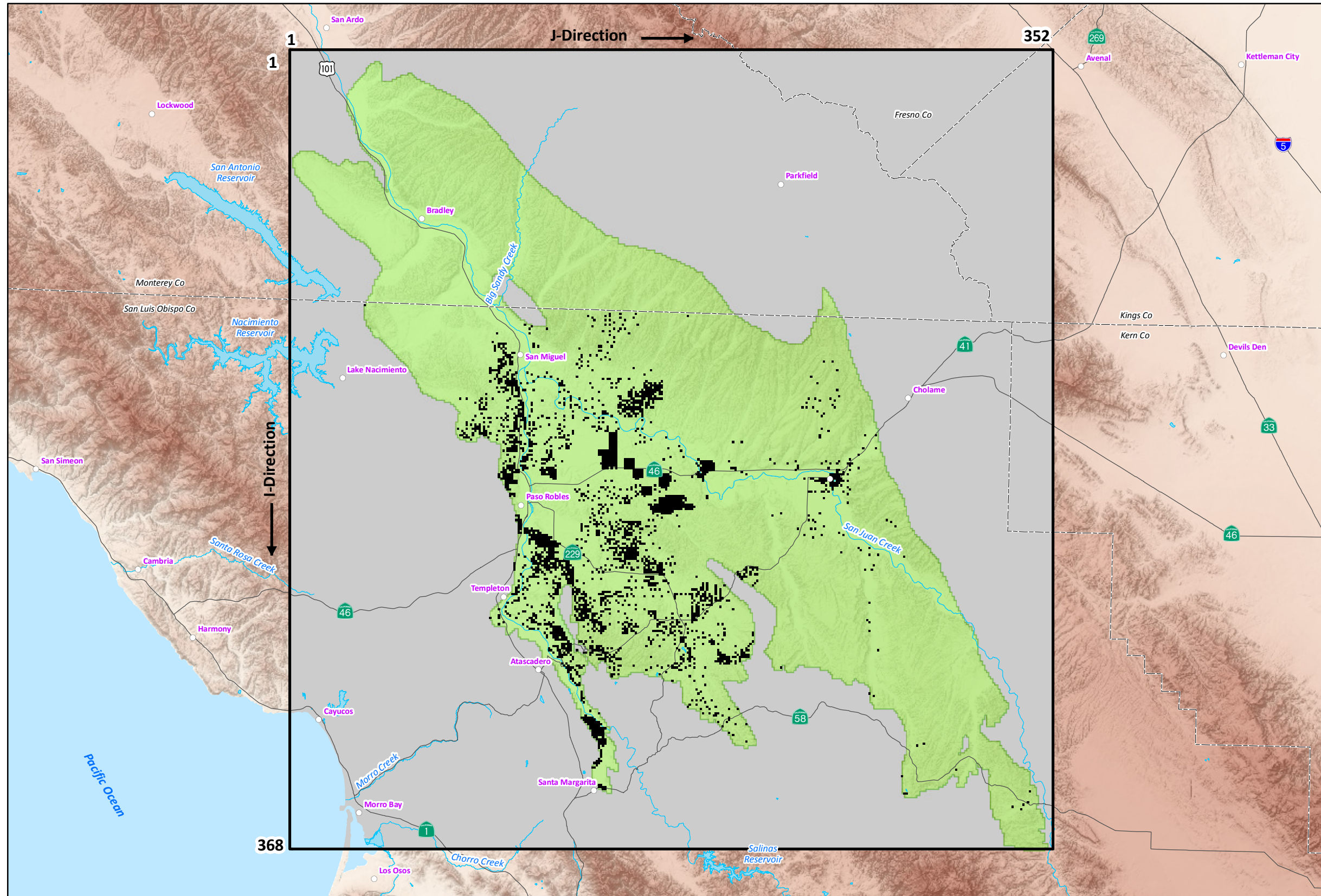
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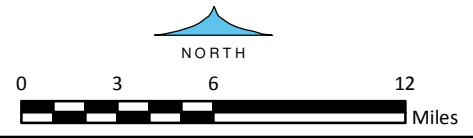
GEOSCIENCE Support Services, Inc.  
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**Figure 62**



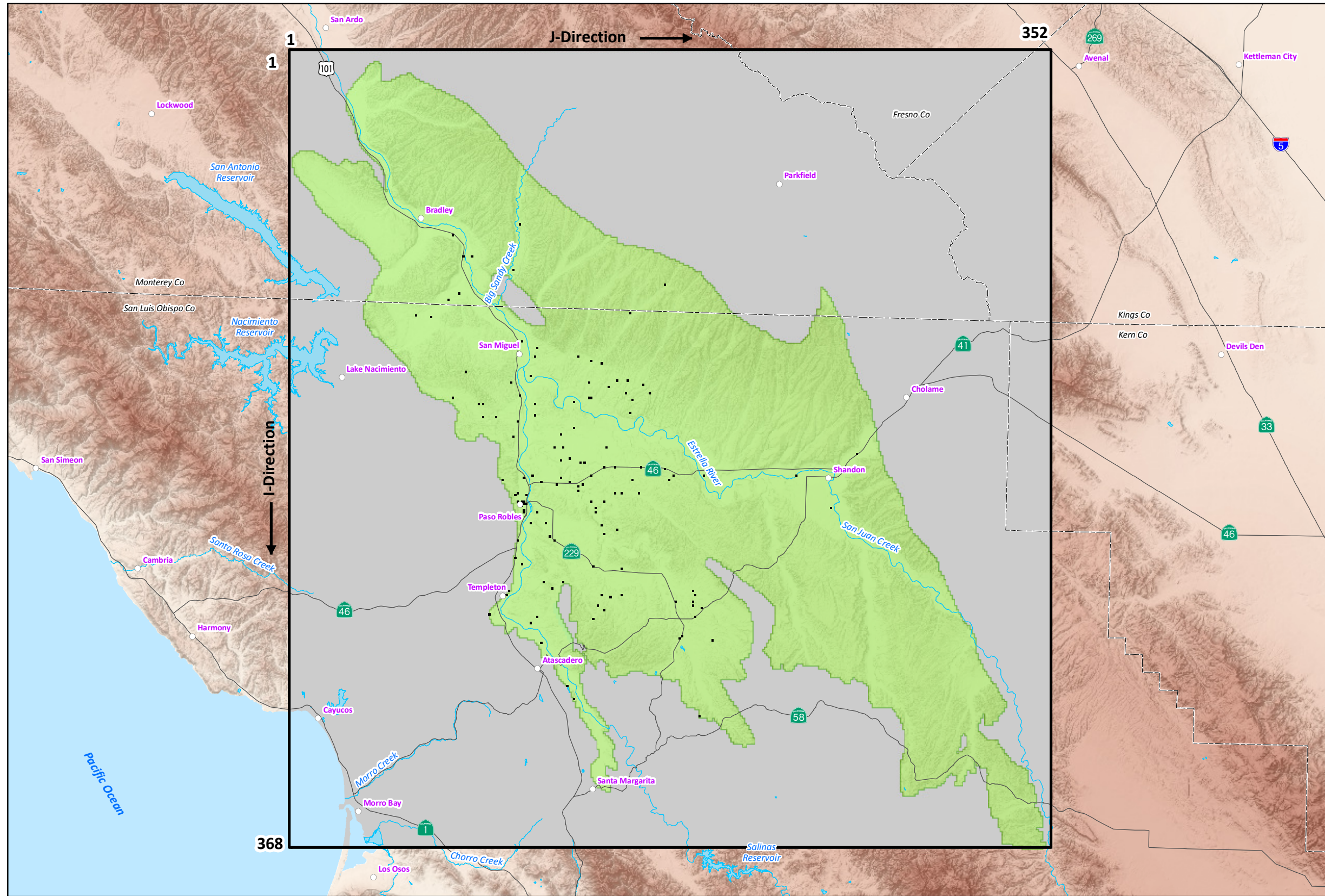
**LOCATION OF PRIVATE DOMESTIC GROUNDWATER PUMPING**

- EXPLANATION**
- Private Domestic Groundwater Pumping Cell
  - Paso Robles Groundwater Basin Model Domain
  - Paso Robles Groundwater Basin Model Active Area
  - Paso Robles Groundwater Basin Model Inactive Area
  - County Boundary
- (Source: Fugro, ETIC Engineers and Cleath, 2005)



**Figure 63**

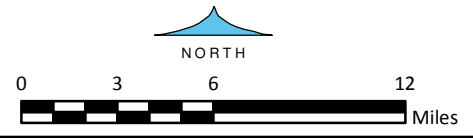
GIS\_proj/co\_slo\_paso\_robles\_model/6\_Fig\_63\_private\_dom\_gw\_pumping\_12-14.mxd



**LOCATION OF  
SMALL COMMERCIAL  
GROUNDWATER PUMPING**

- EXPLANATION**
- Small Commercial Groundwater Pumping Cell
  - ▭ Paso Robles Groundwater Basin Model Domain
  - Paso Robles Groundwater Basin Model Active Area
  - Paso Robles Groundwater Basin Model Inactive Area
- (Source: Fugro, ETIC Engineers and Cleath, 2005)
- County Boundary

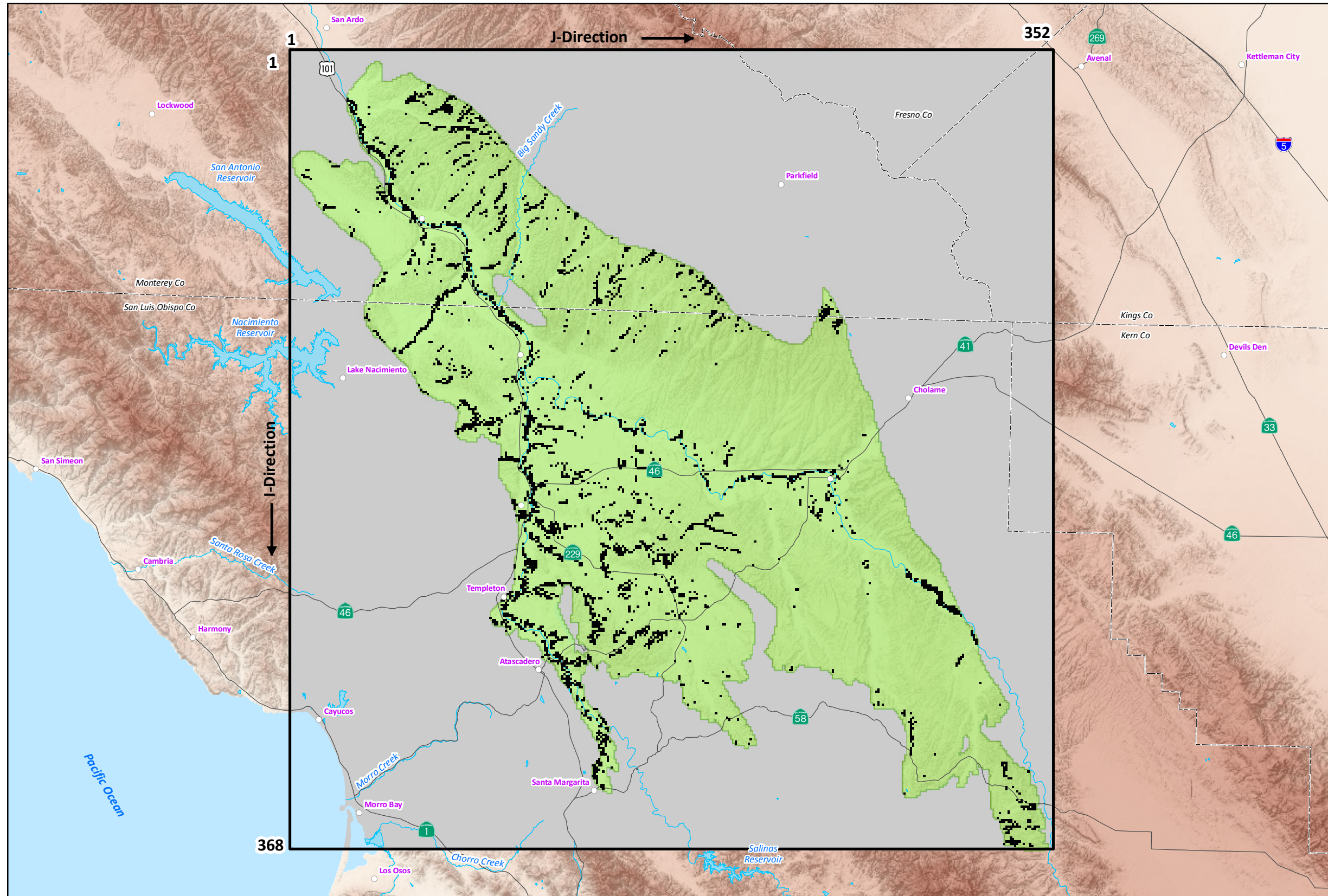
19-Dec-14  
 Prepared by: DWB. Map Projection: State Plane 1983, Zone V.  
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**Figure 64**

GIS\_proj/co\_slo\_paso\_robles\_model/6\_Fig\_64\_small\_com\_gw\_pumping\_12-14.mxd



**LOCATION OF  
EVAPOTRANSPIRATION  
BY RIPARIAN VEGETATION**

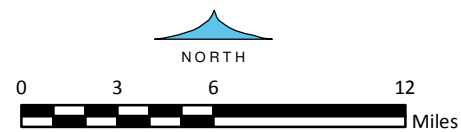
- EXPLANATION**
- Evapotranspiration by Riparian Vegetation
  - ▭ Paso Robles Groundwater Basin Model Domain
  - ▭ Paso Robles Groundwater Basin Model Active Area
  - ▭ Paso Robles Groundwater Basin Model Inactive Area
- (Source: Fugro, ETIC Engineers and Cleath, 2005)
- County Boundary

19-Dec-14

Prepared by: DWB. Map Projection: State Plane 1983, Zone V.

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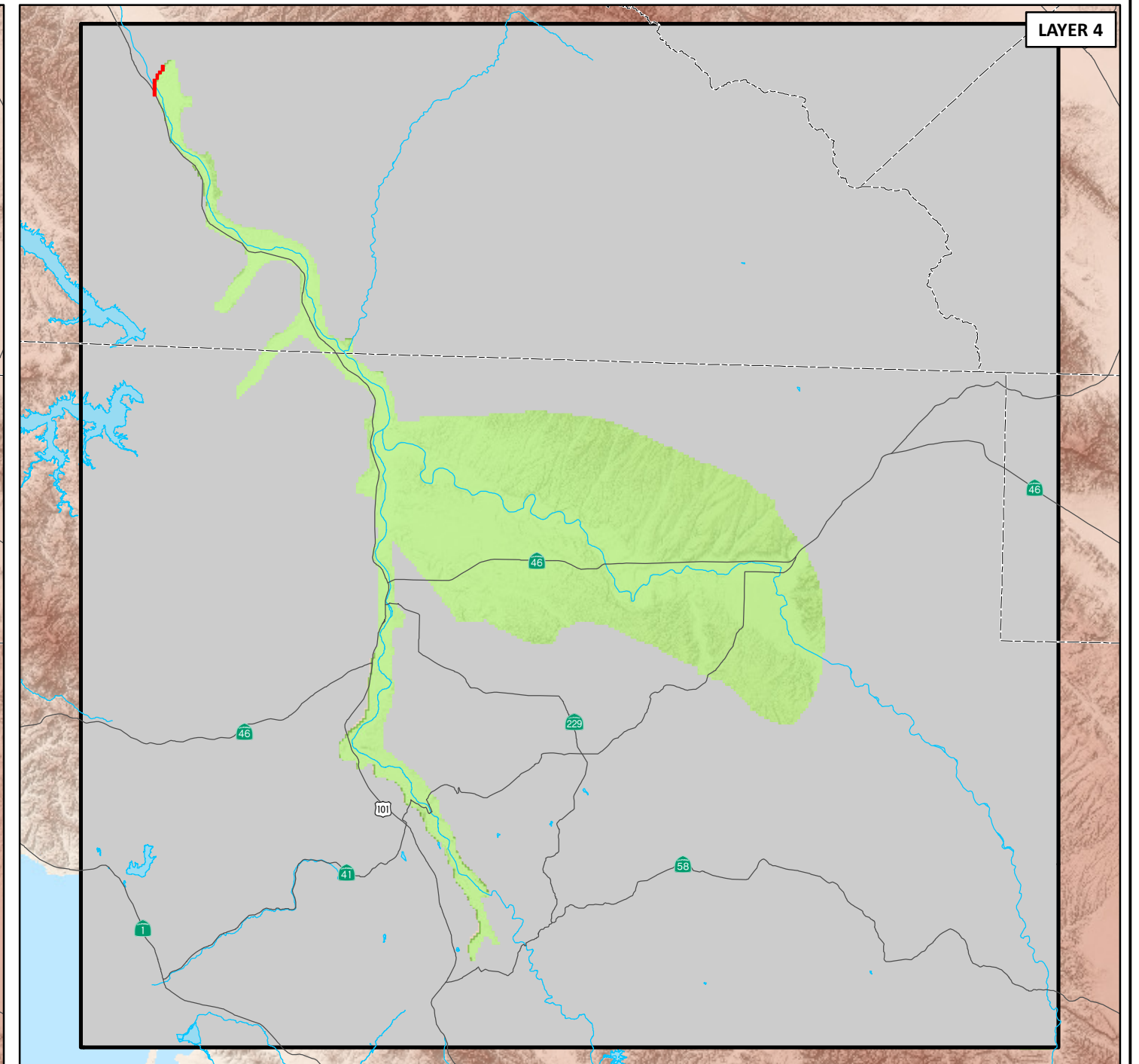
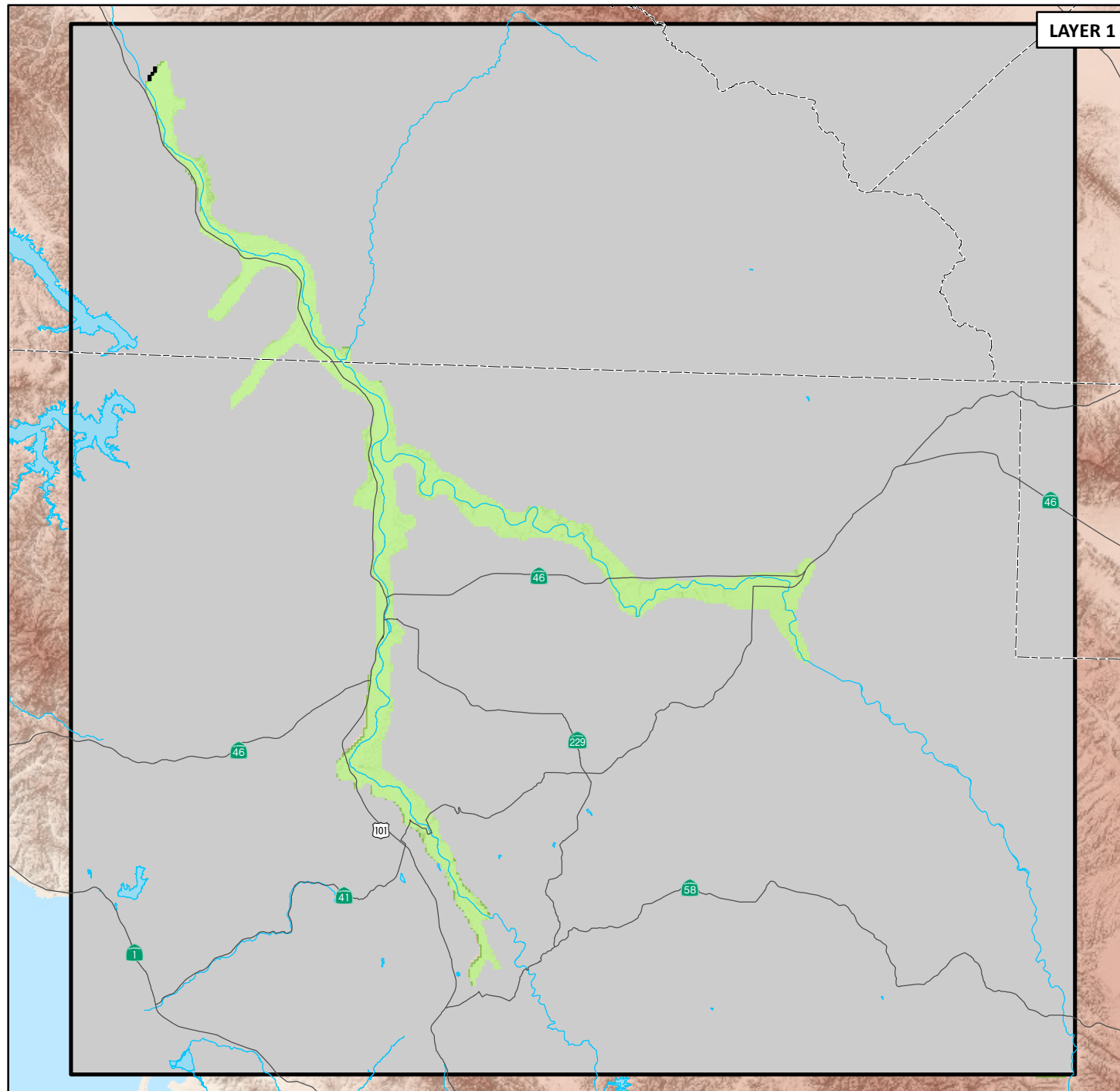
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**GEOSCIENCE**

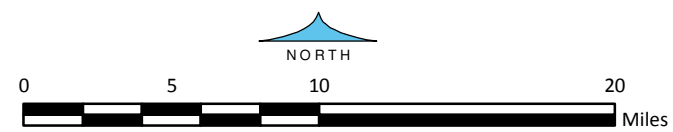
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**Figure 65**









LAYER 1

LAYER 4



EXPLANATION

-  Paso Robles Groundwater Basin Model Domain
-  Paso Robles Groundwater Basin Model Active Area
-  Paso Robles Groundwater Basin Model Inactive Area
-  Location of Subsurface Outflow Through Basin Boundary Within Layer 1
-  Location of Subsurface Outflow Through Basin Boundary Within Layer 4
-  County Boundary

(Source: Fugro, ETIC Engineers and Cleath, 2005)

LOCATION OF SUBSURFACE OUTFLOW THROUGH BASIN BOUNDARY

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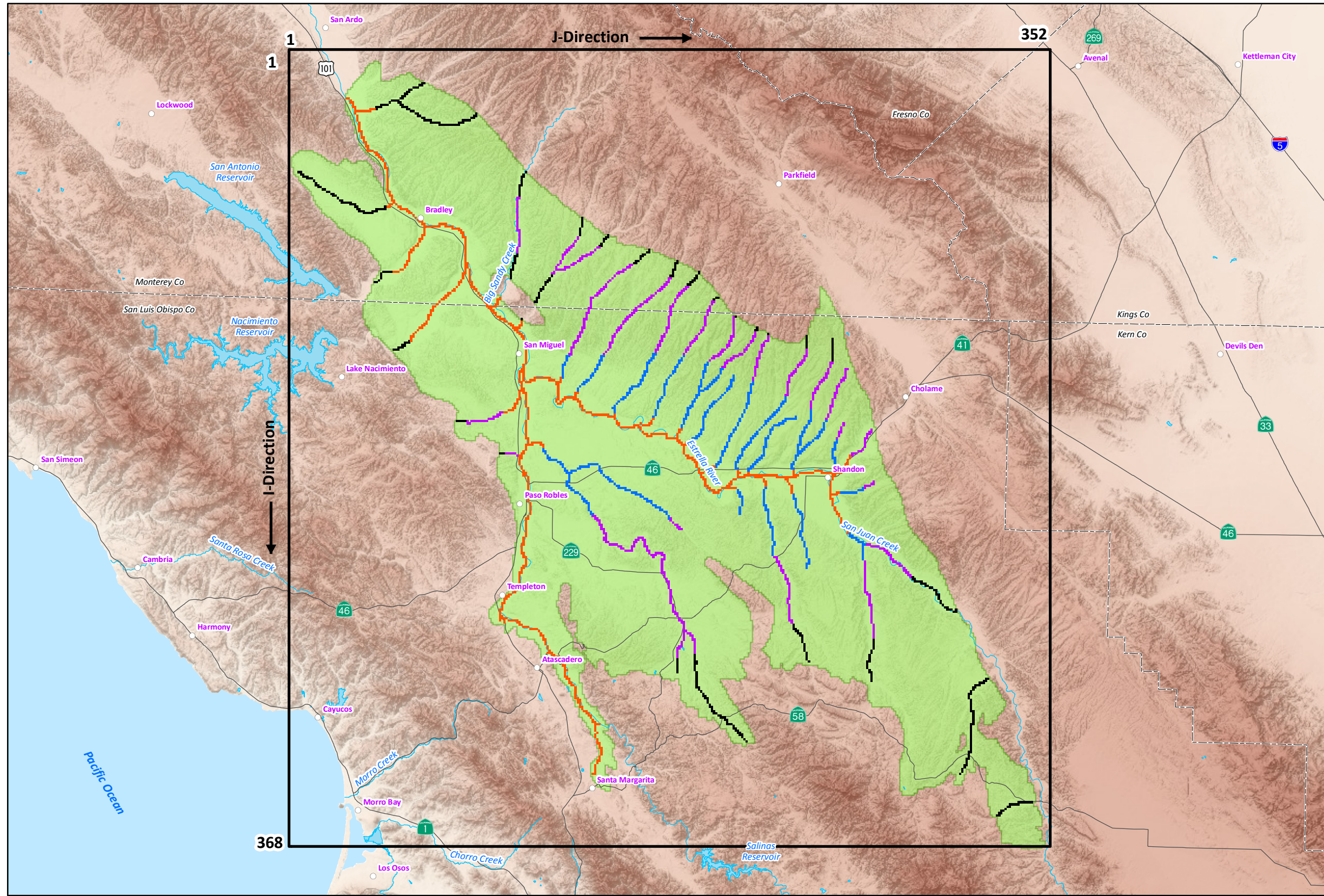
Prepared by: DWB. Map Projection: State Plane 1983, Zone V. feet.

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Figure 66



**LOCATION OF MODEL STREAM NETWORK**

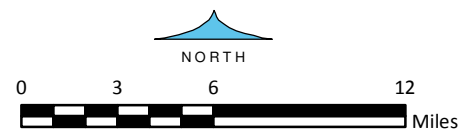
**EXPLANATION**

- Model Layer 1 Stream
- Model Layer 2 Stream
- Model Layer 3 Stream
- Model Layer 4 Stream
- Paso Robles Groundwater Basin Model Domain
- Paso Robles Groundwater Basin Model Active Area
- Paso Robles Groundwater Basin Model Inactive Area
- (Source: Fugro, ETIC Engineers and Cleath, 2005)
- County Boundary

19-Dec-14

Prepared by: DWB. Map Projection: State Plane 1983, Zone V.

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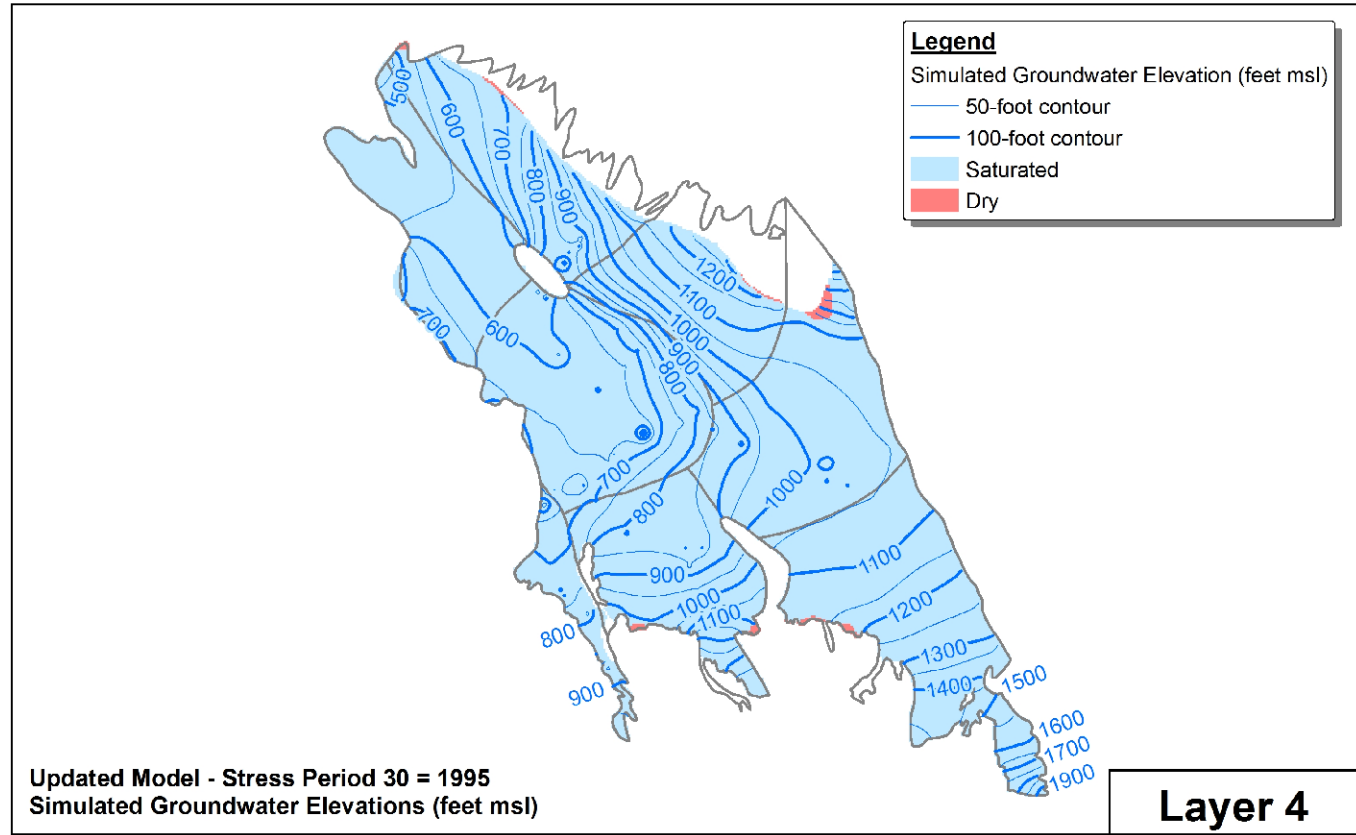
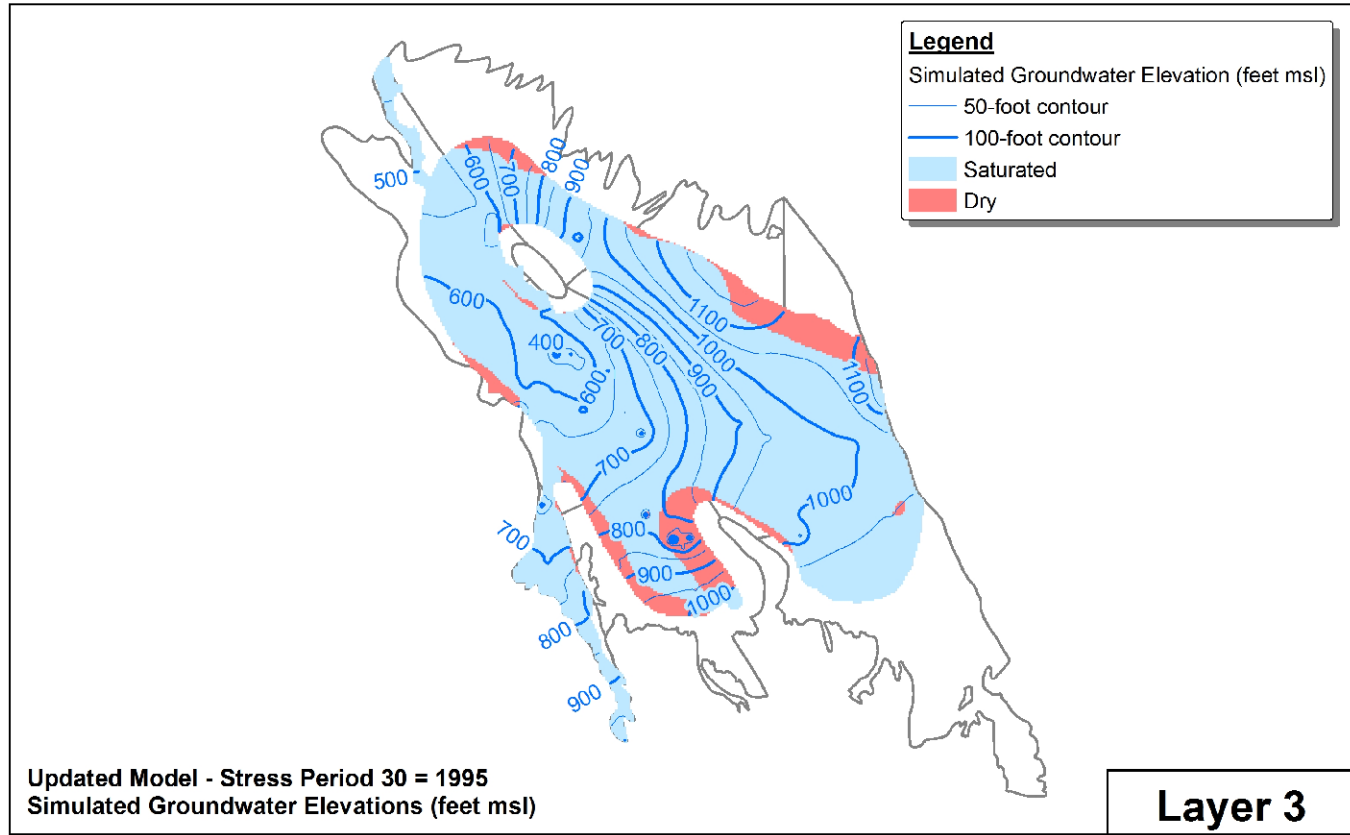
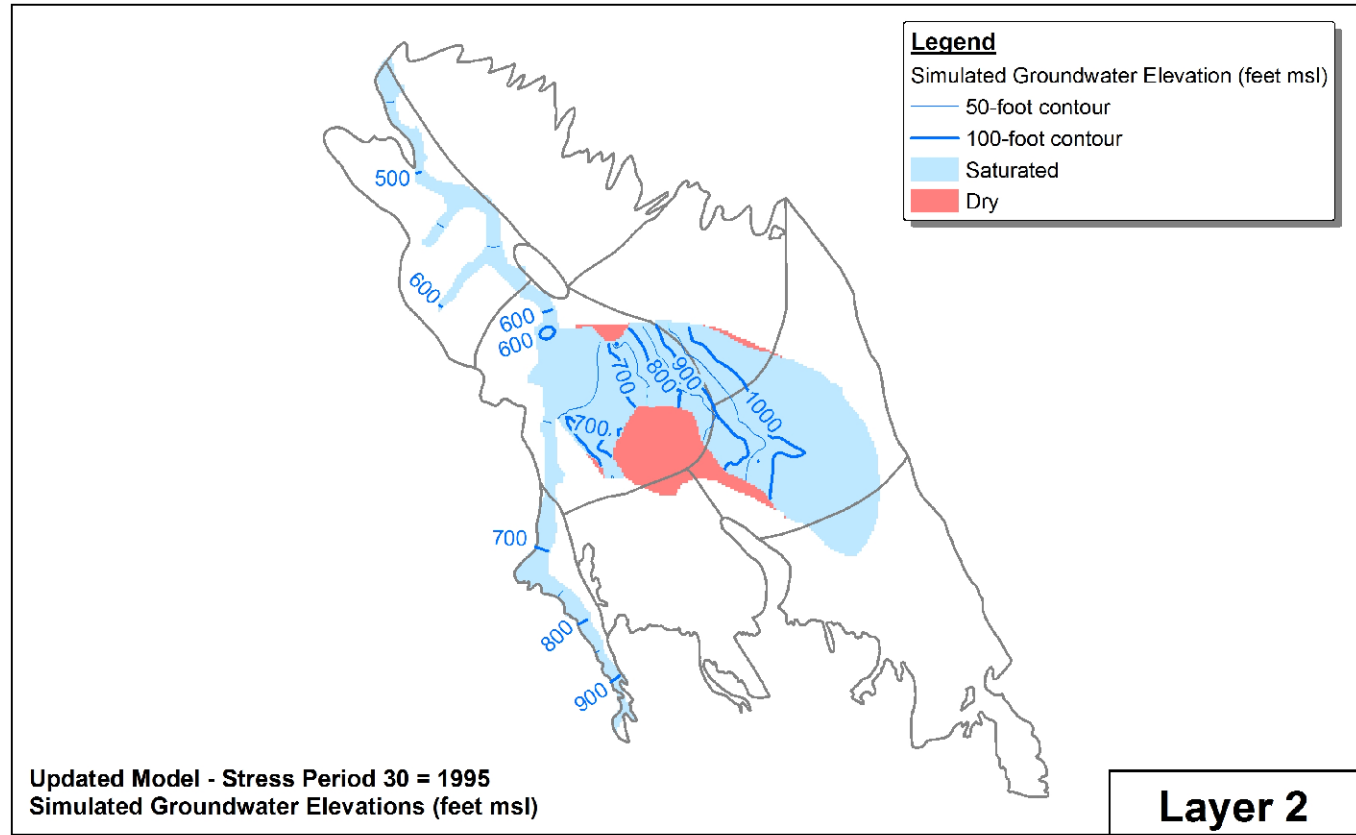
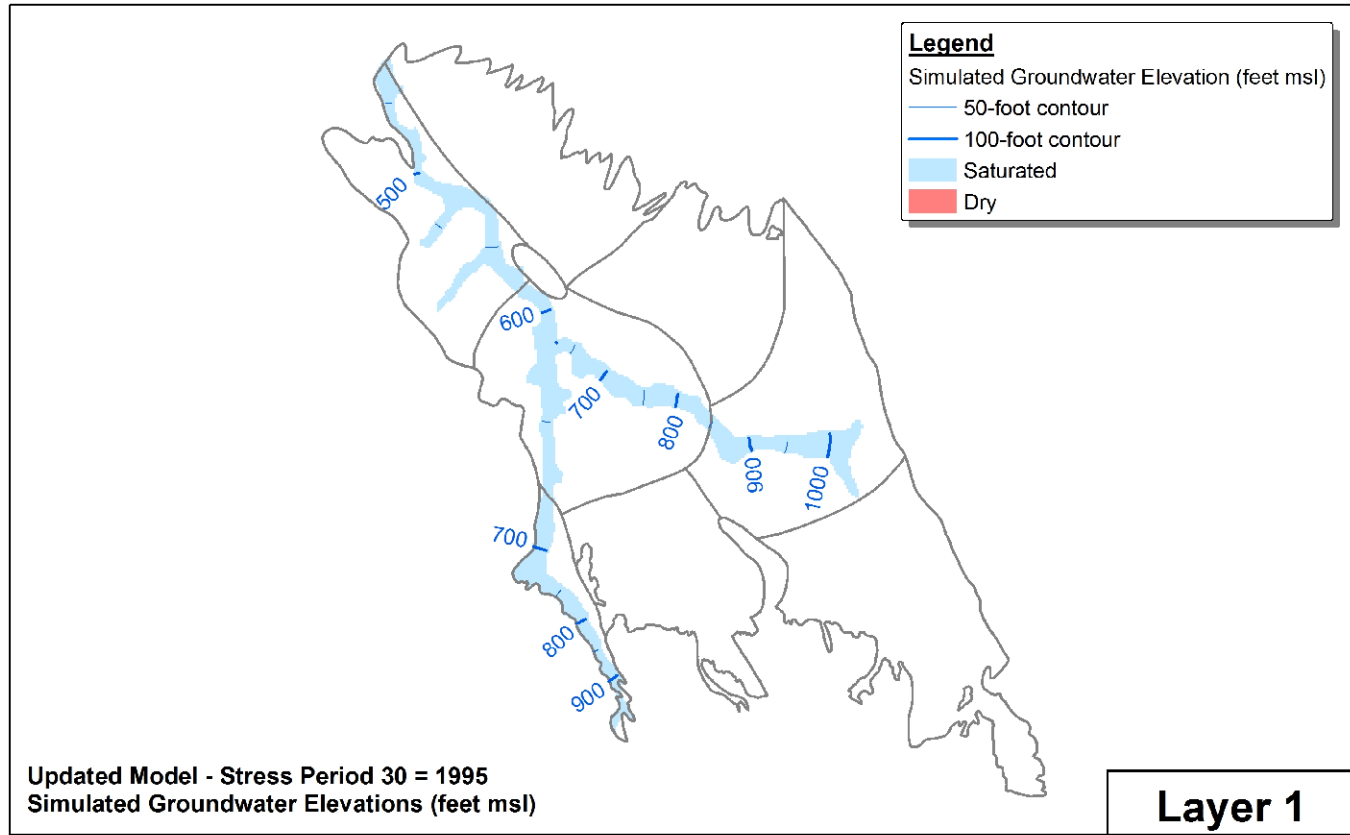
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**Figure 67**

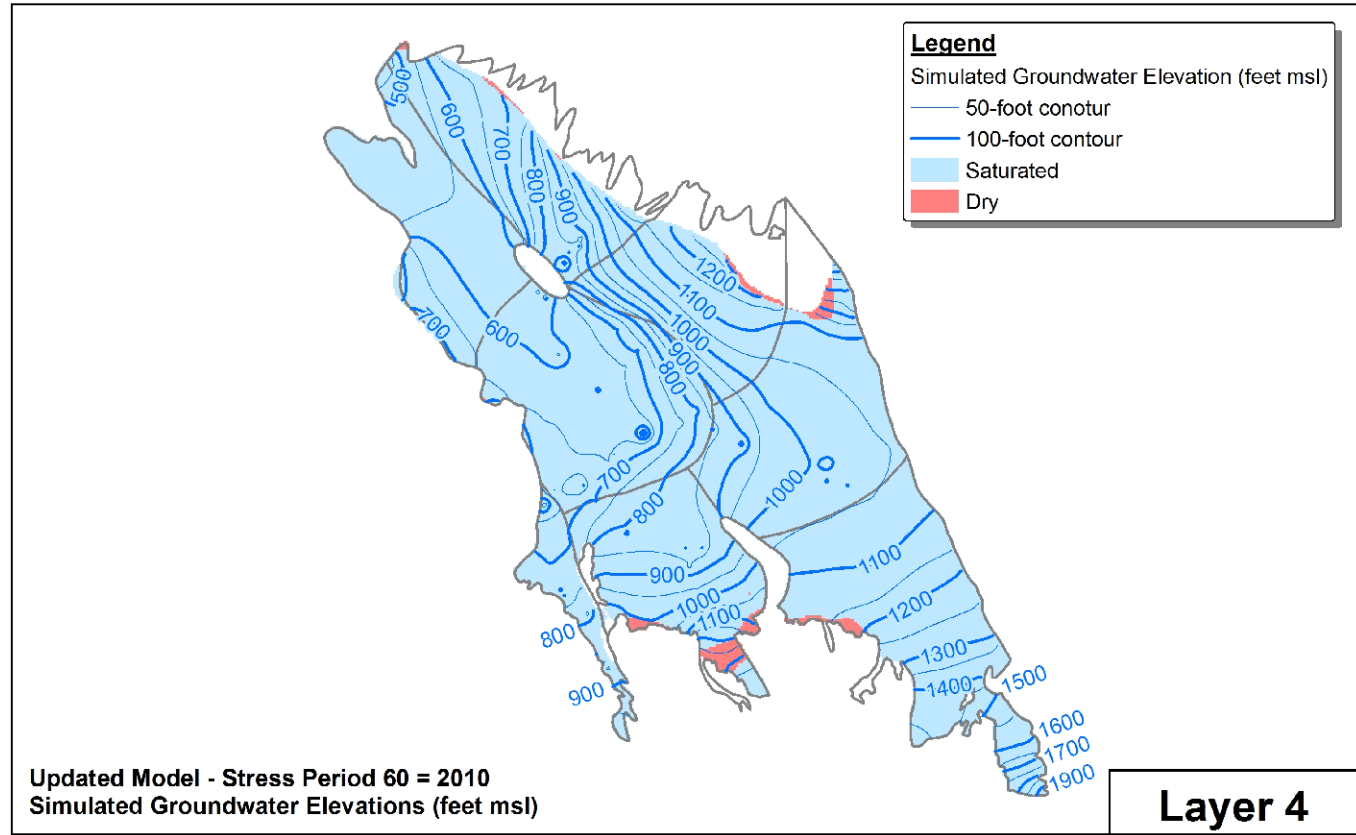
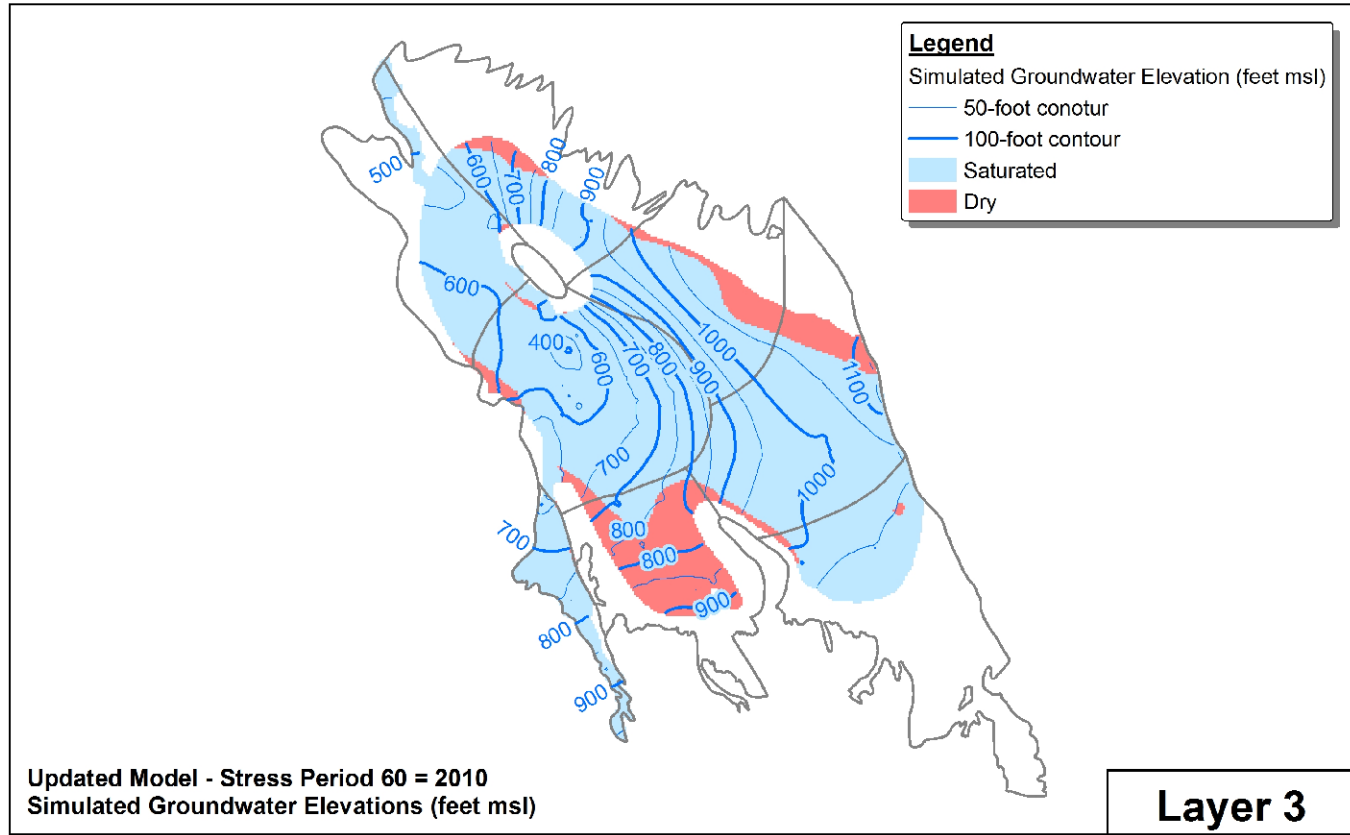
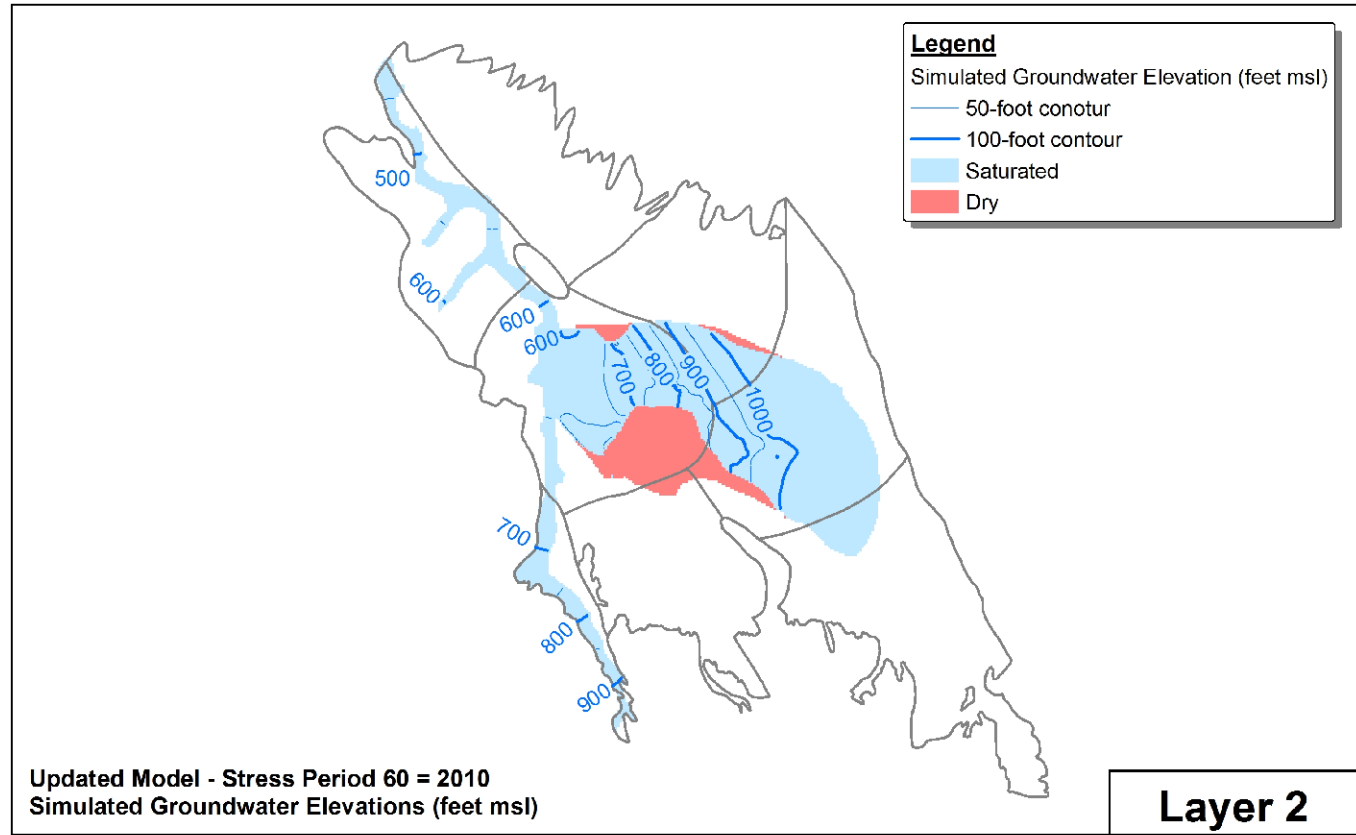
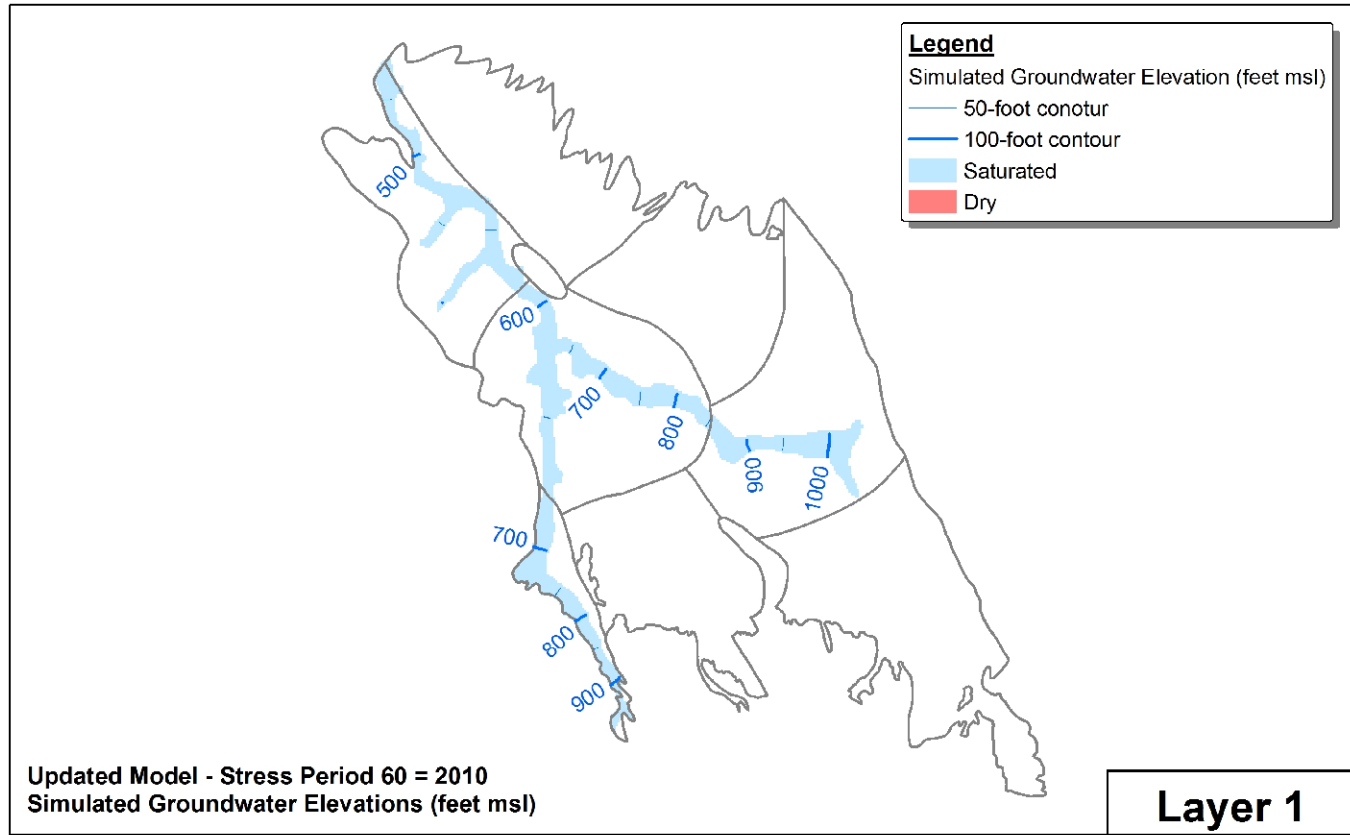


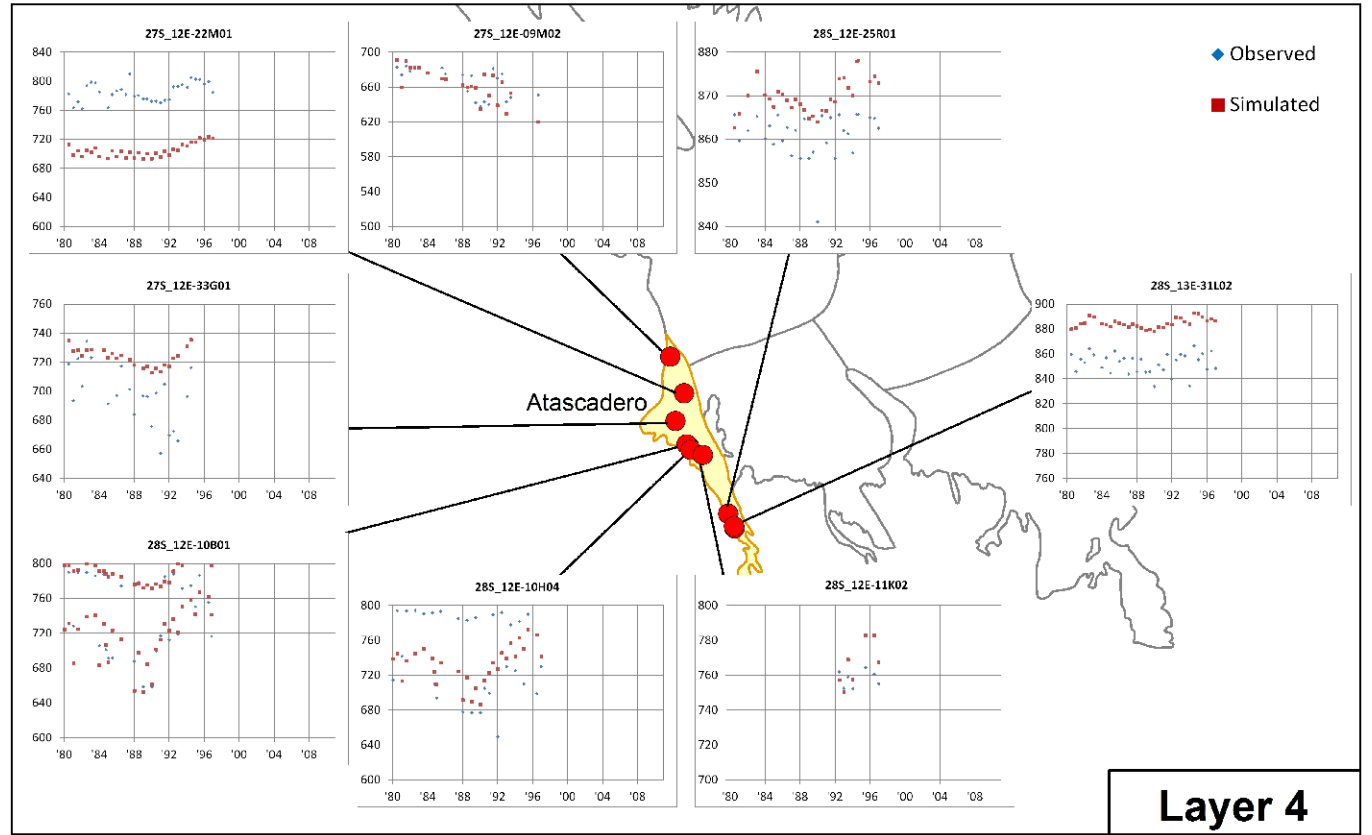
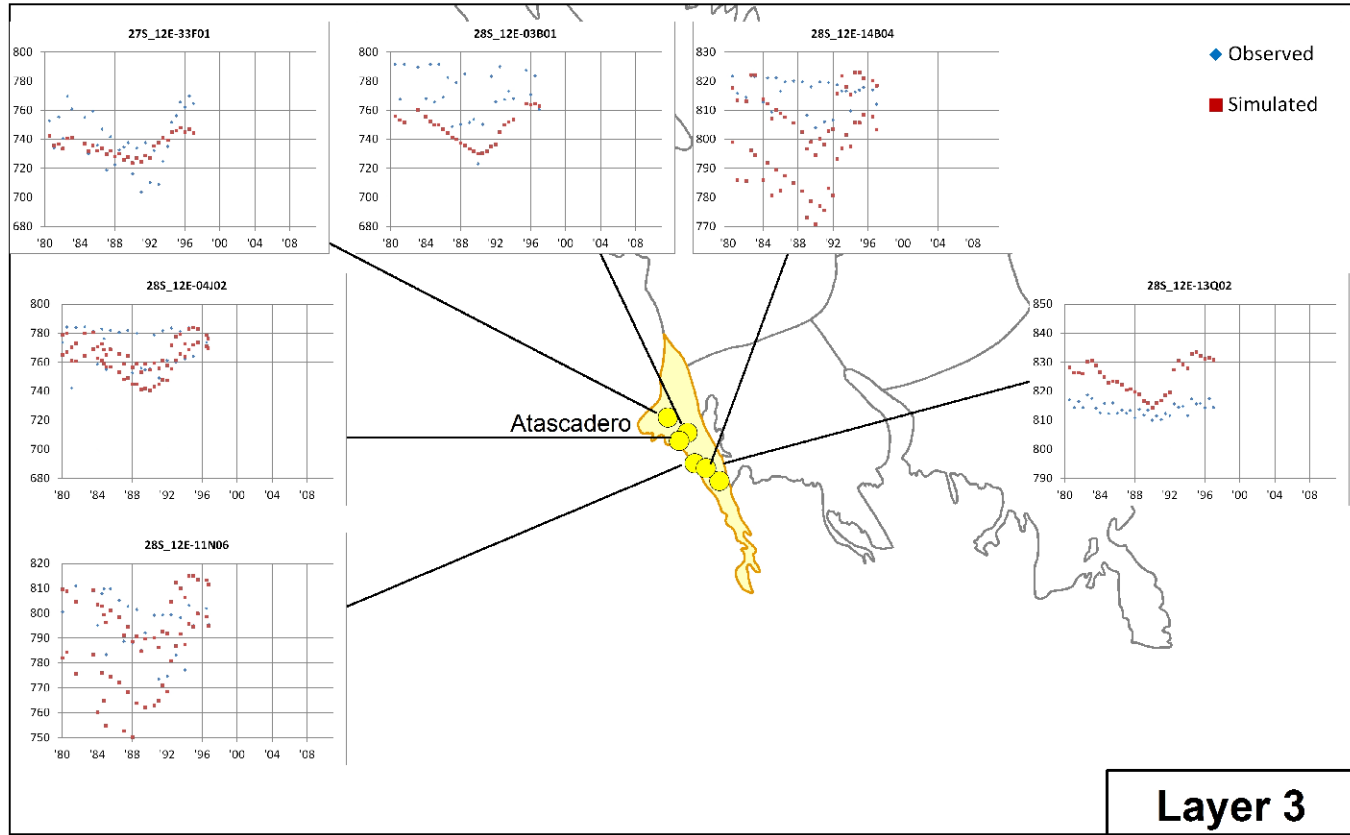
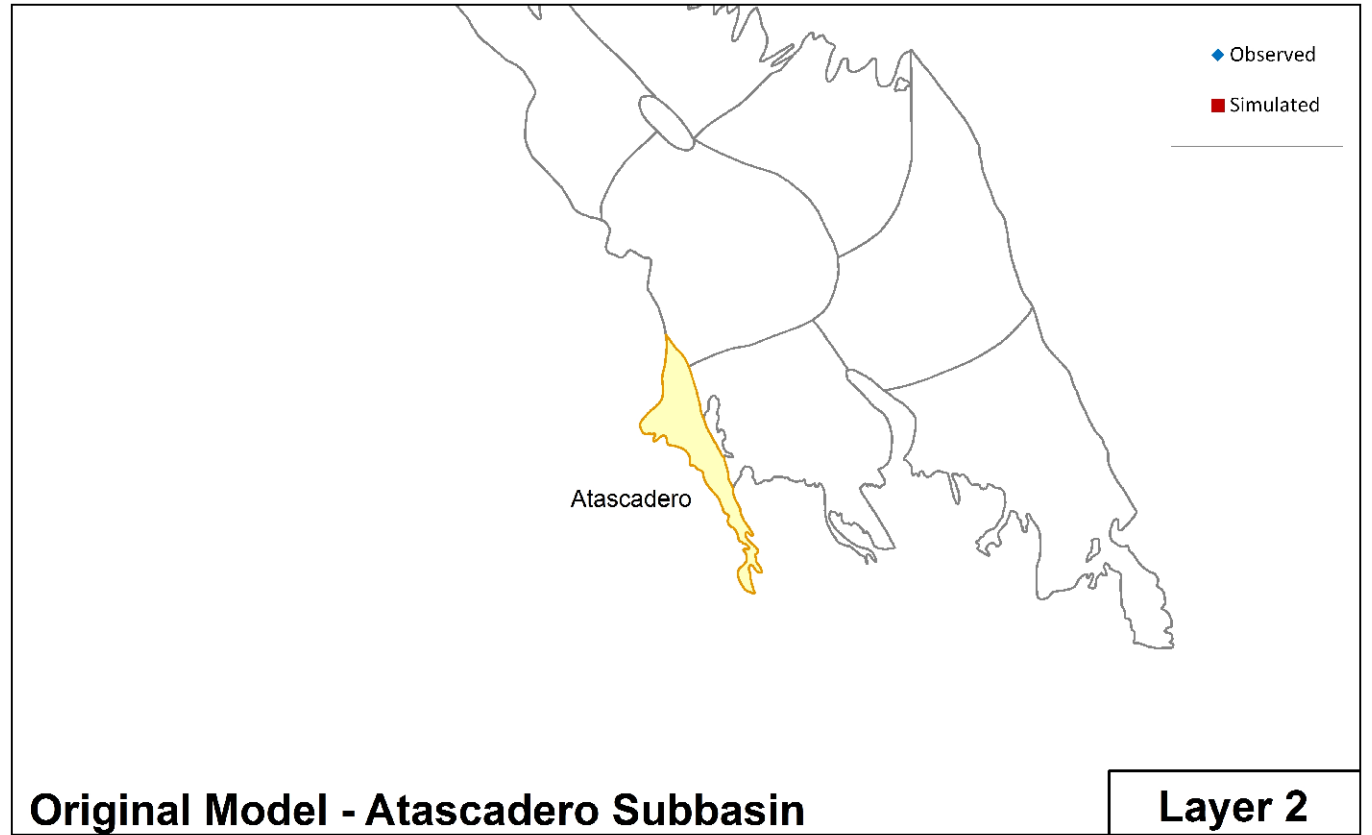
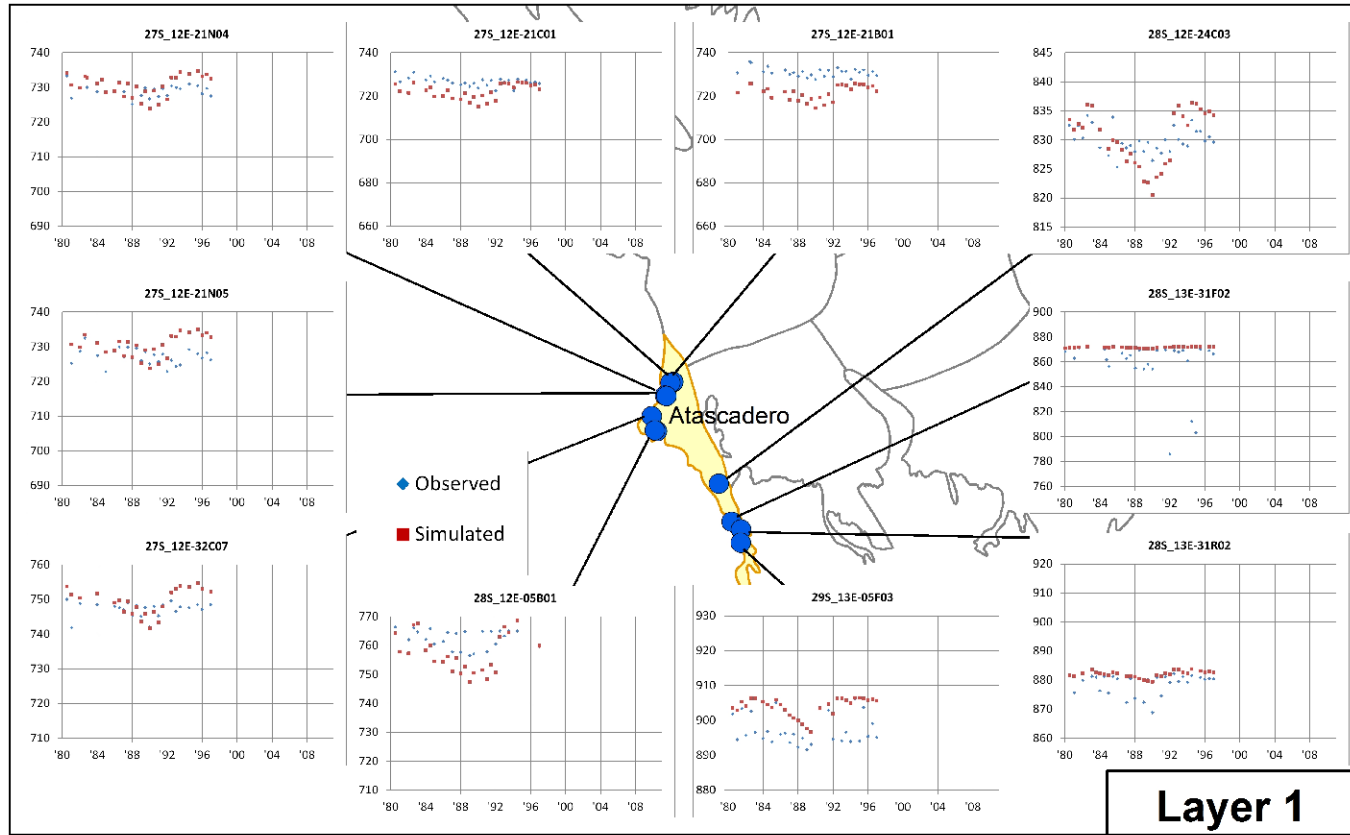
Path: T:\Projects\Phase 2\Bain Model Update\820103\SM\Map\Final Model Record\Figure 69\_Updated Model Simulated Groundwater Elevations after 15 Years (1995).mxd

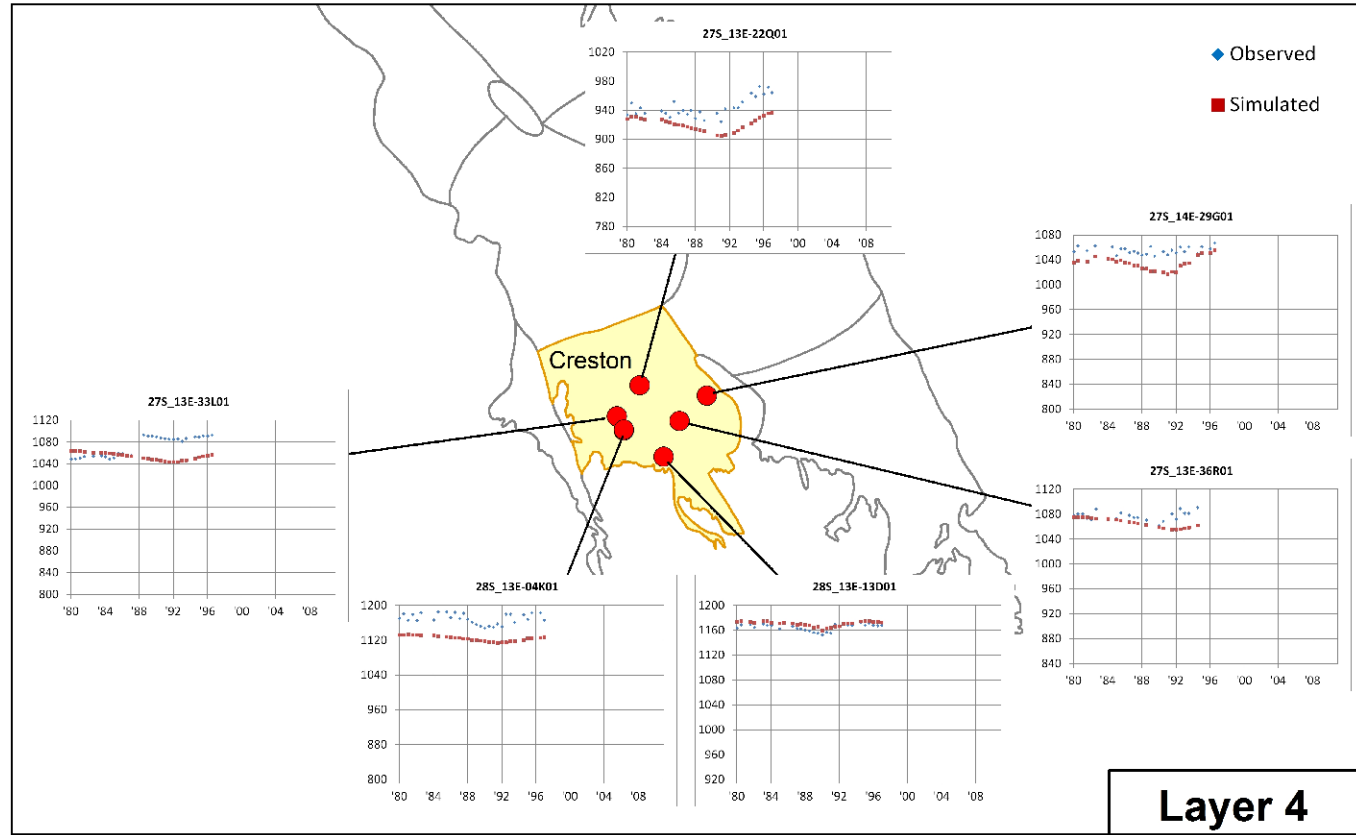
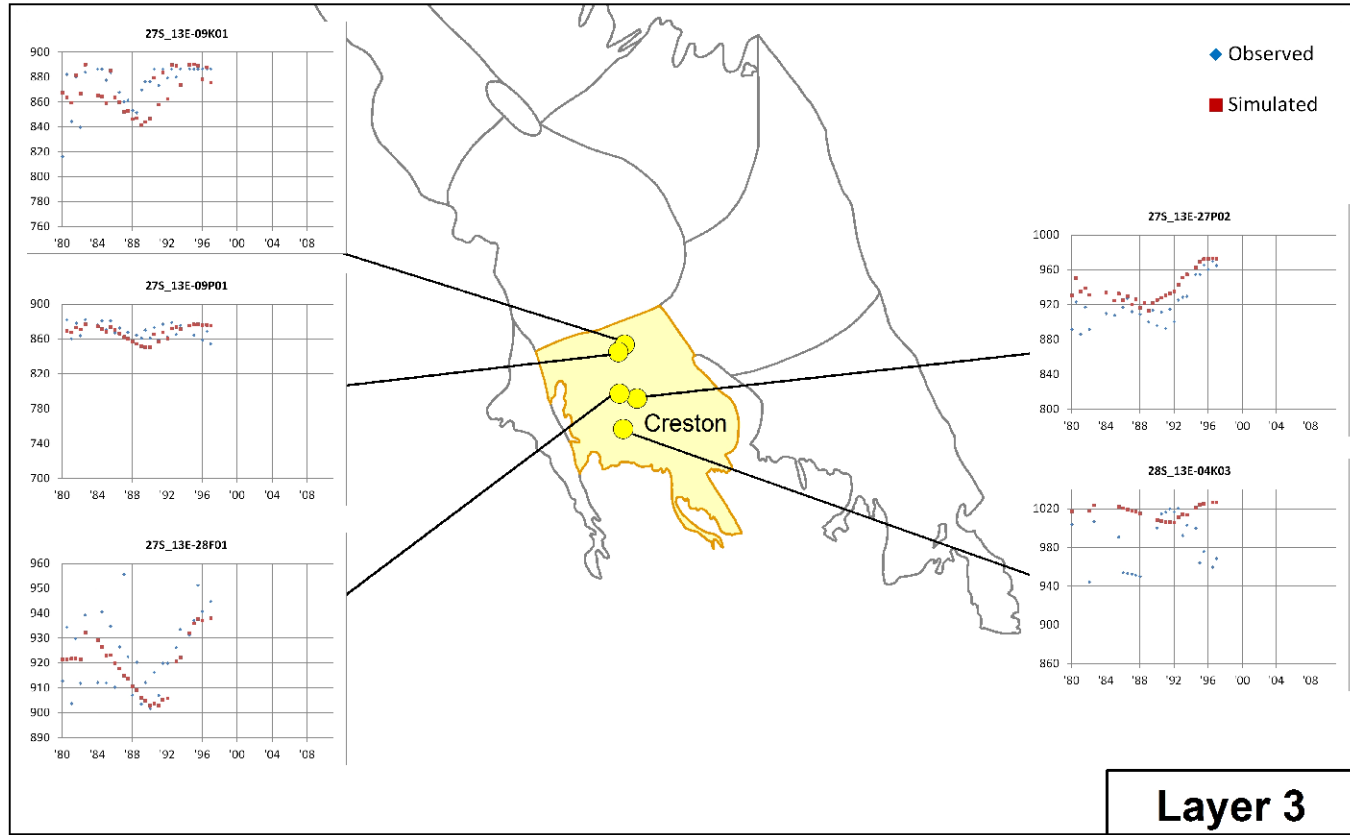
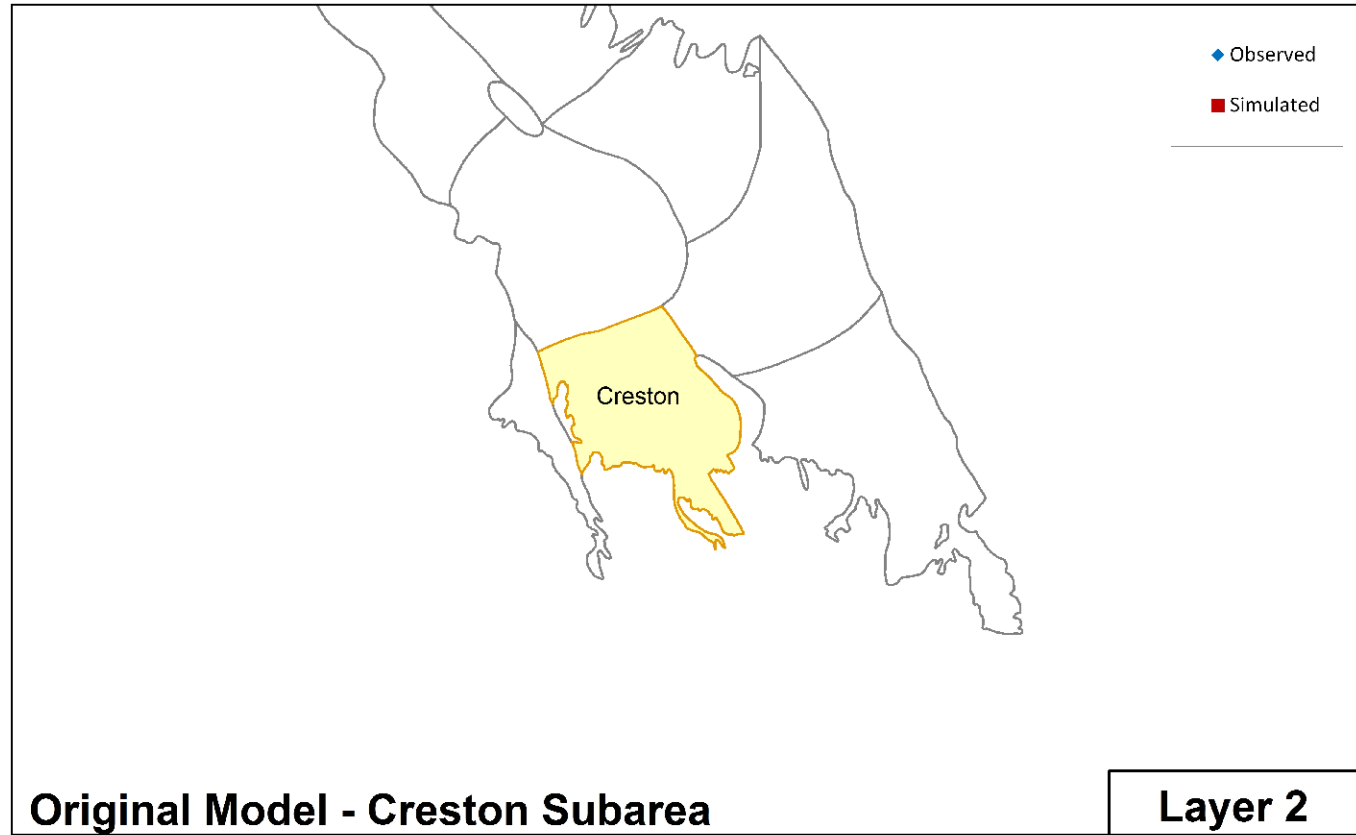
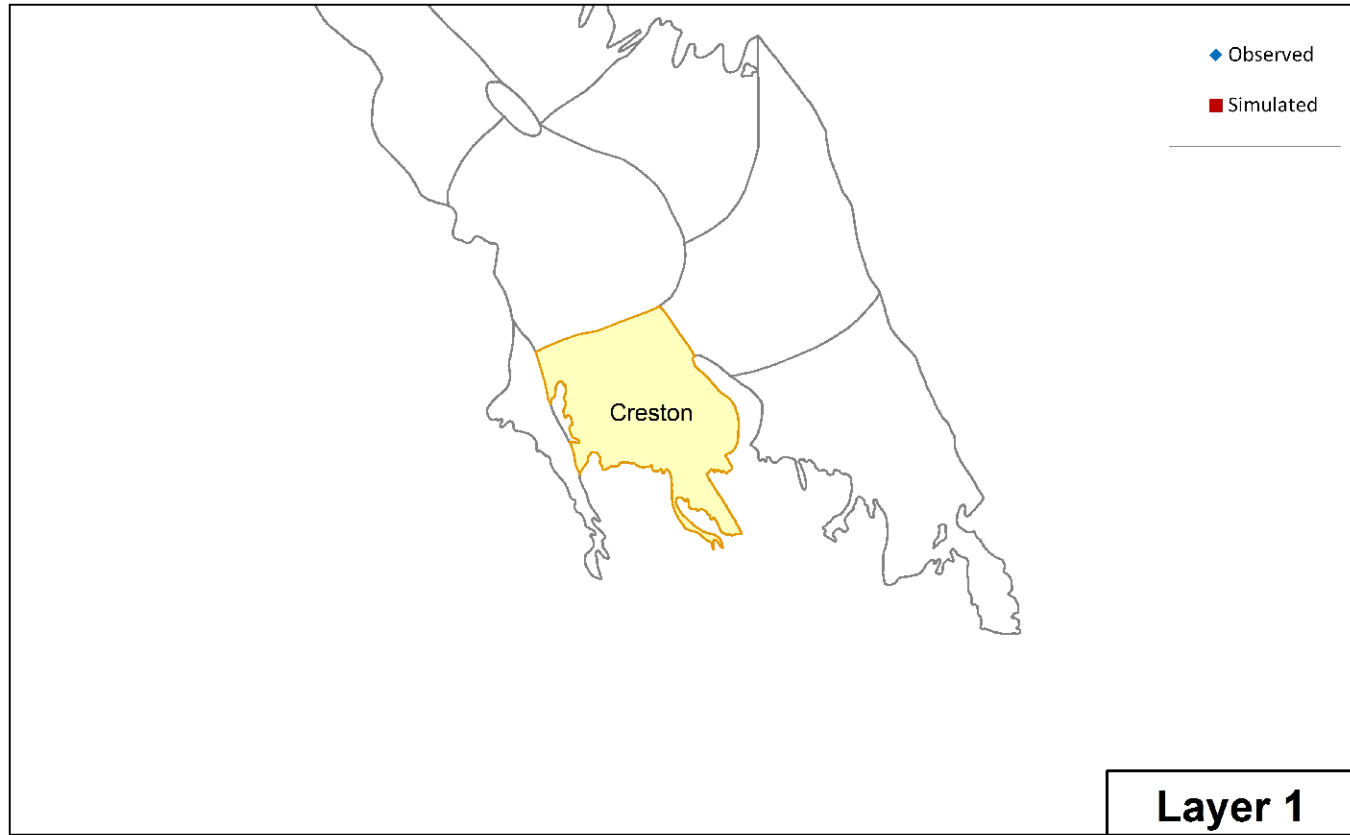


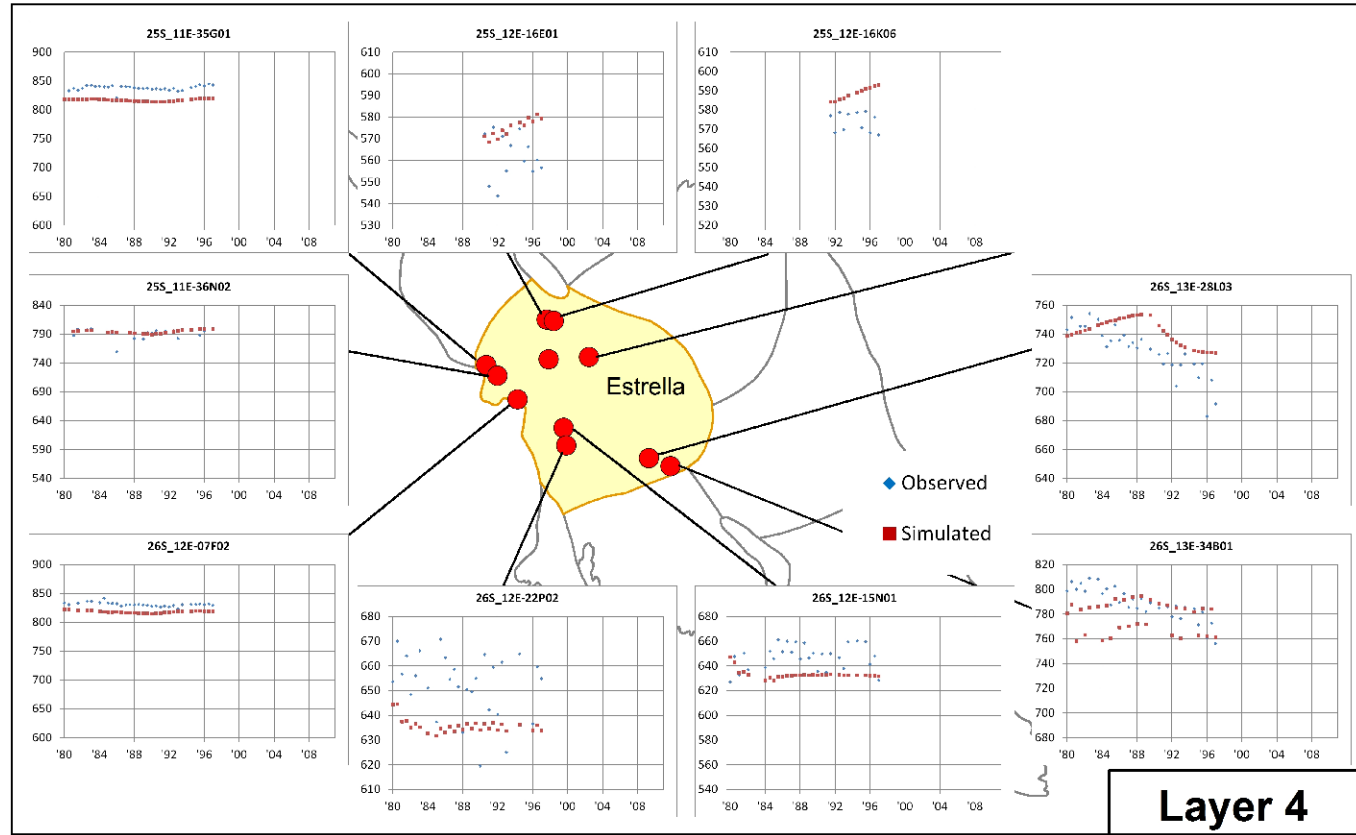
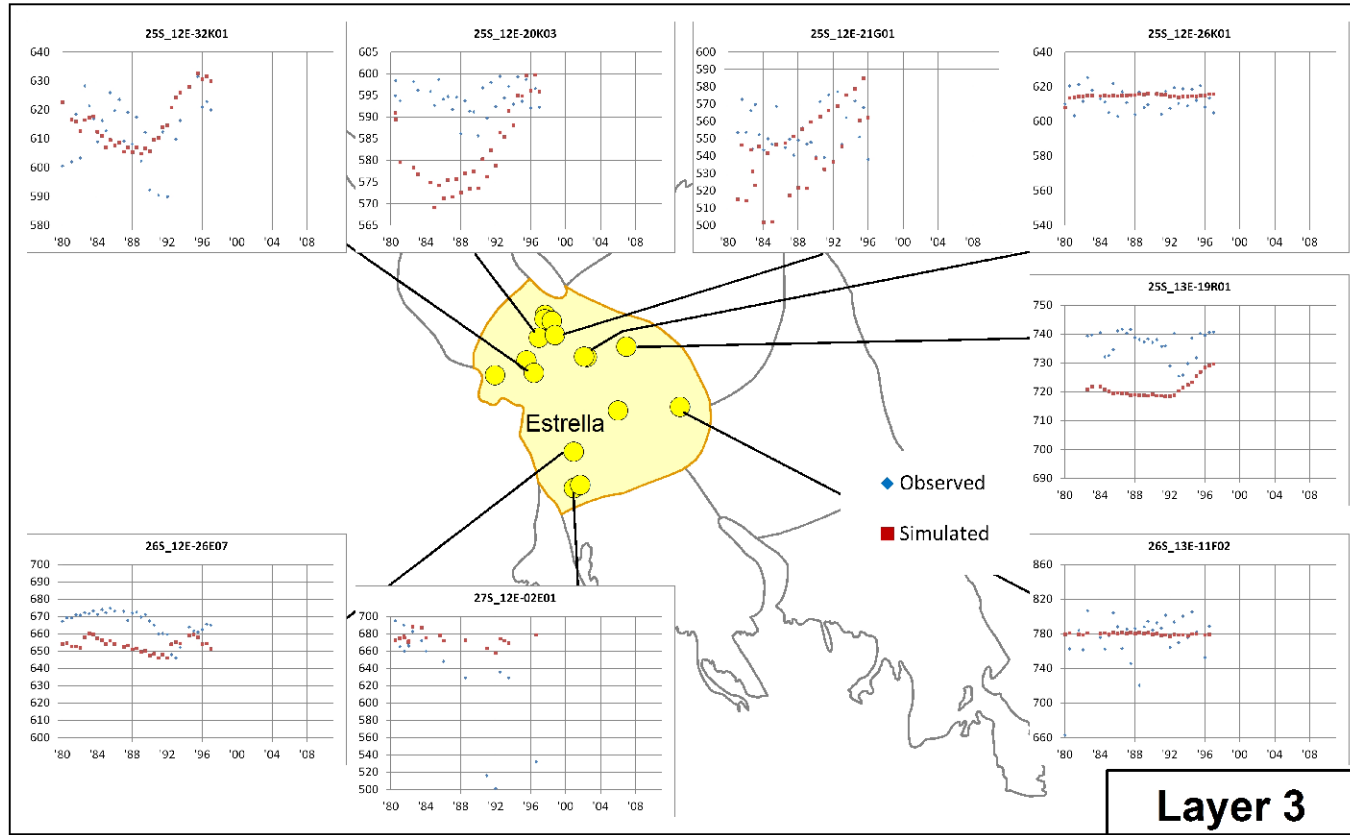
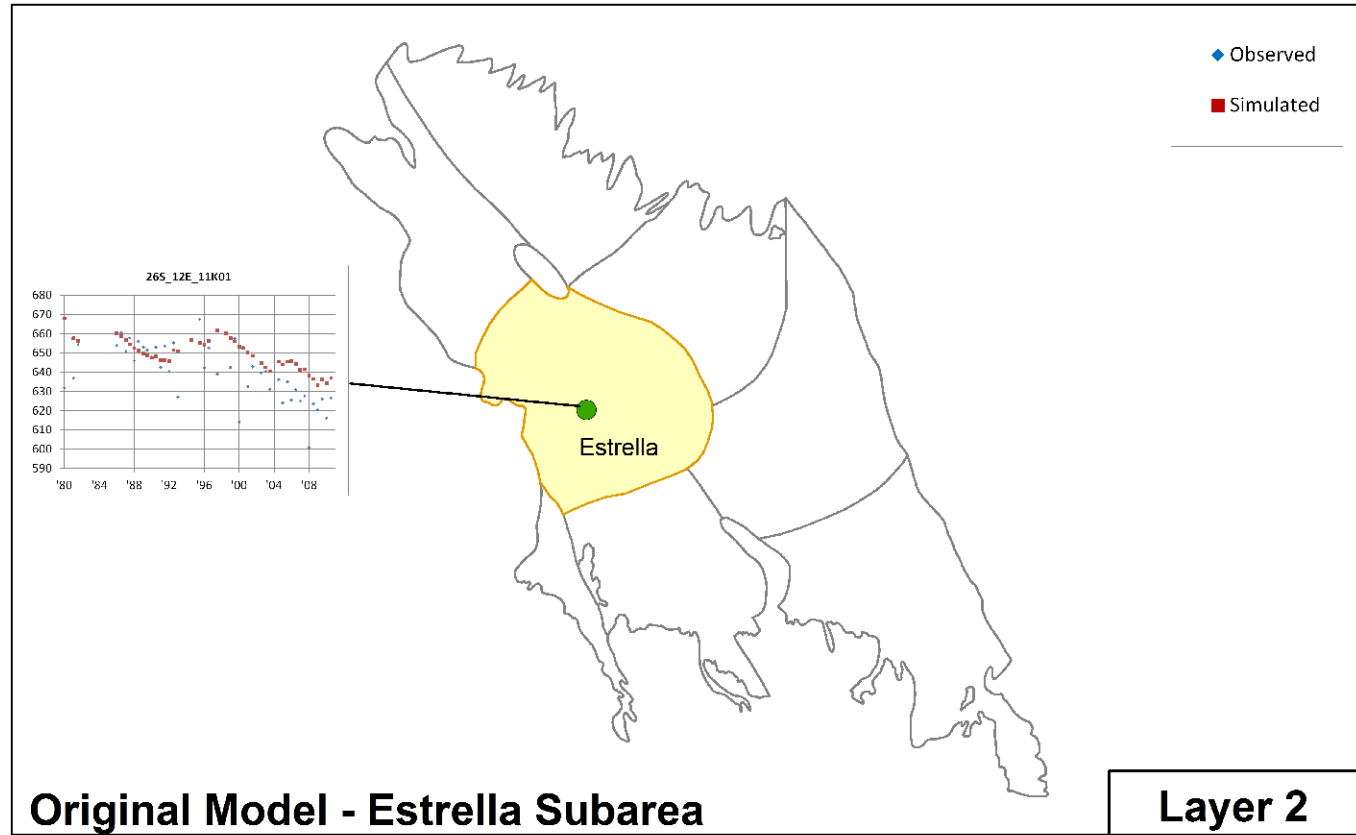
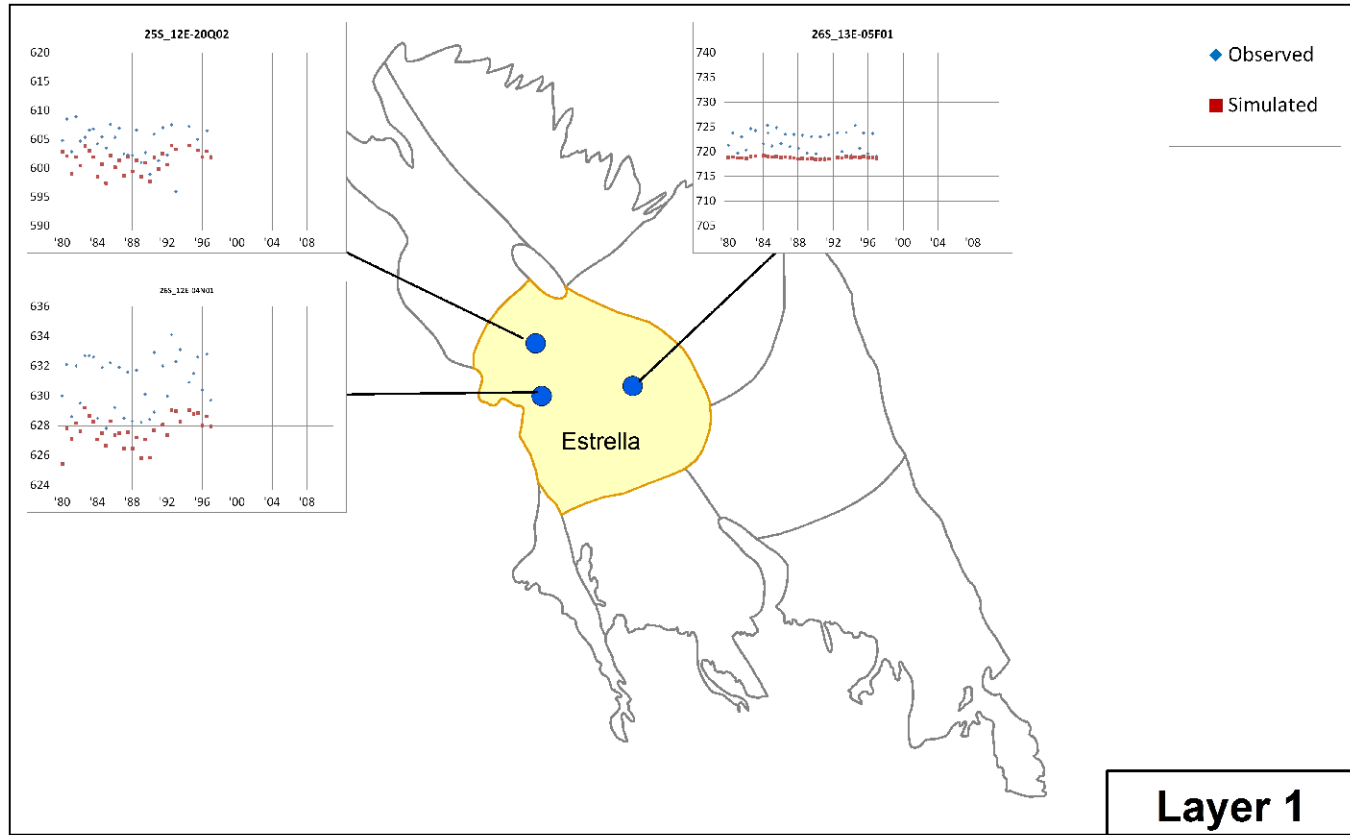


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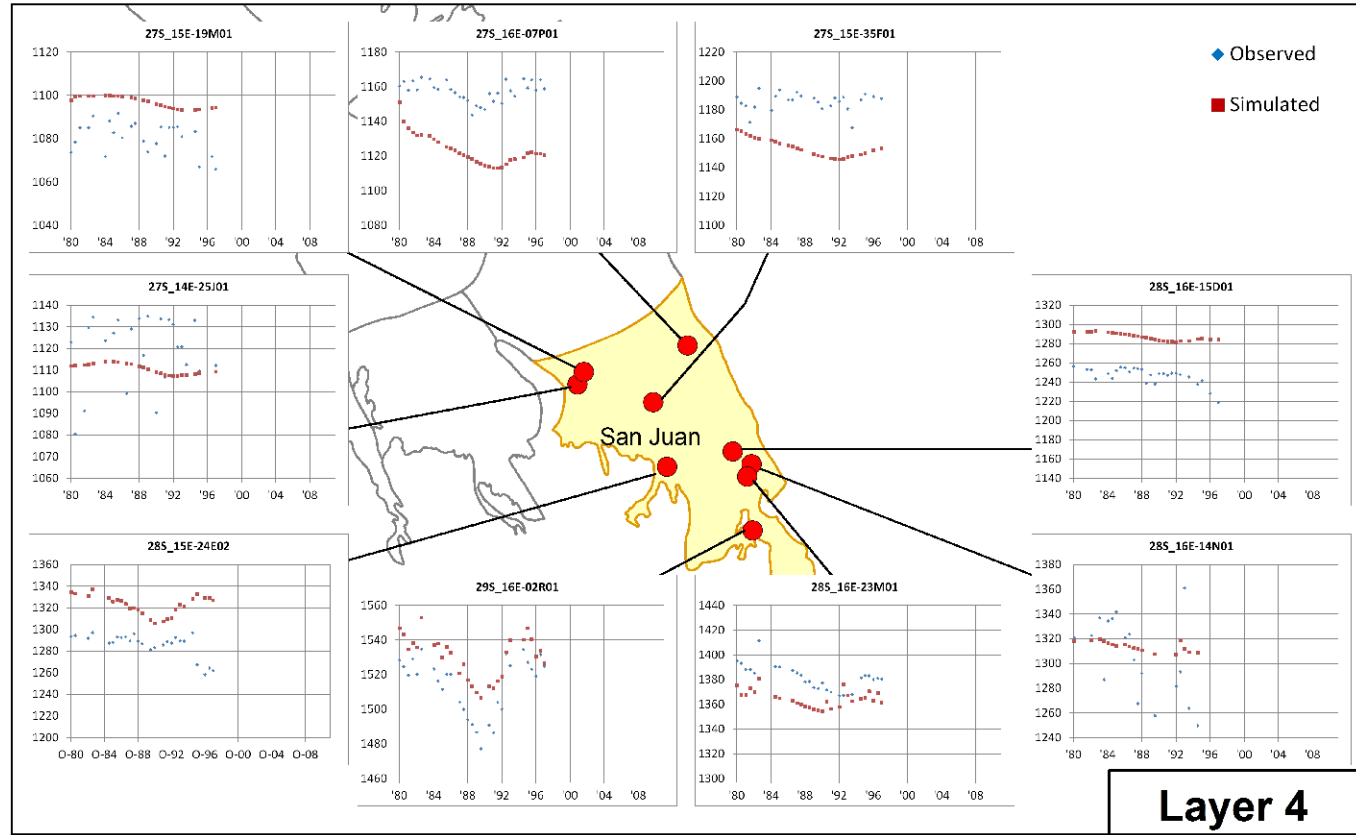
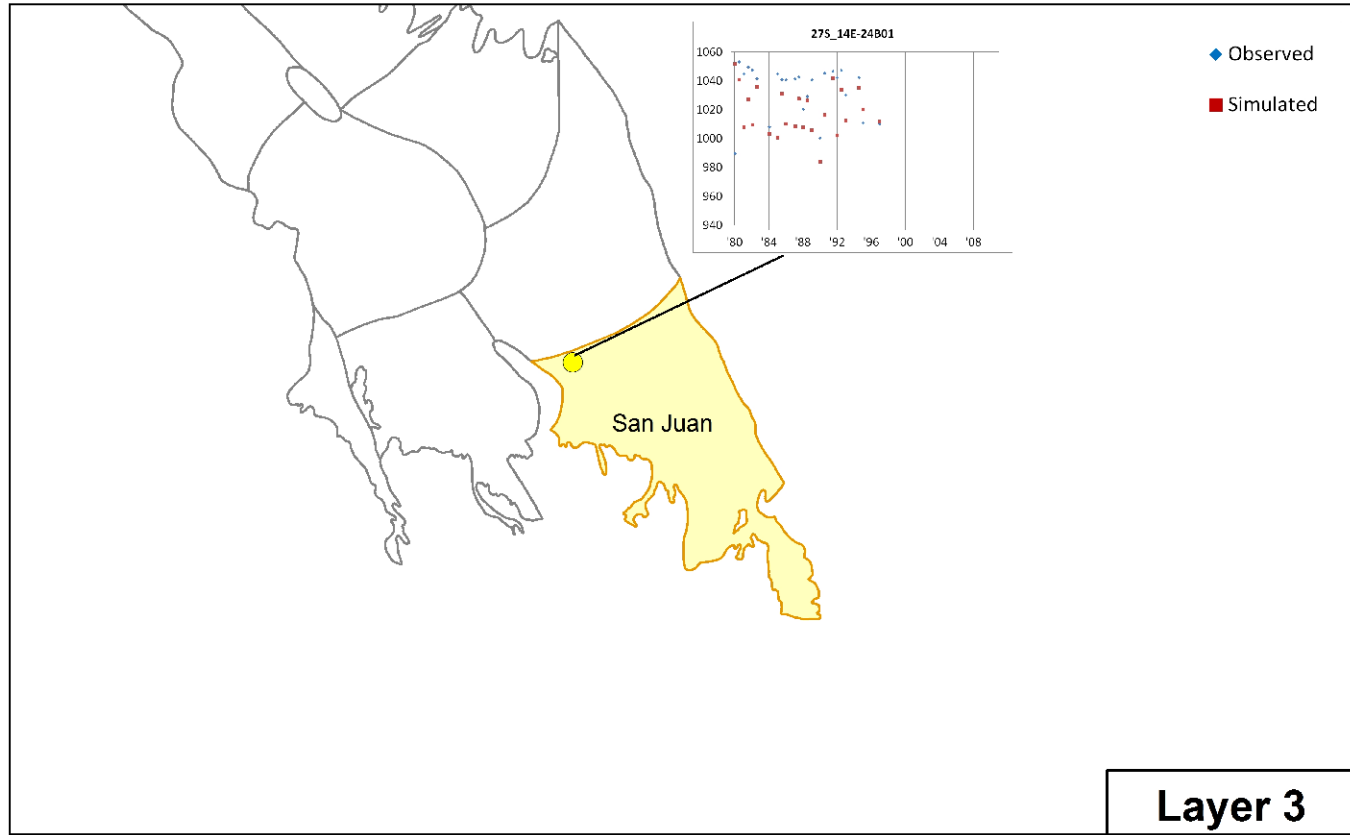
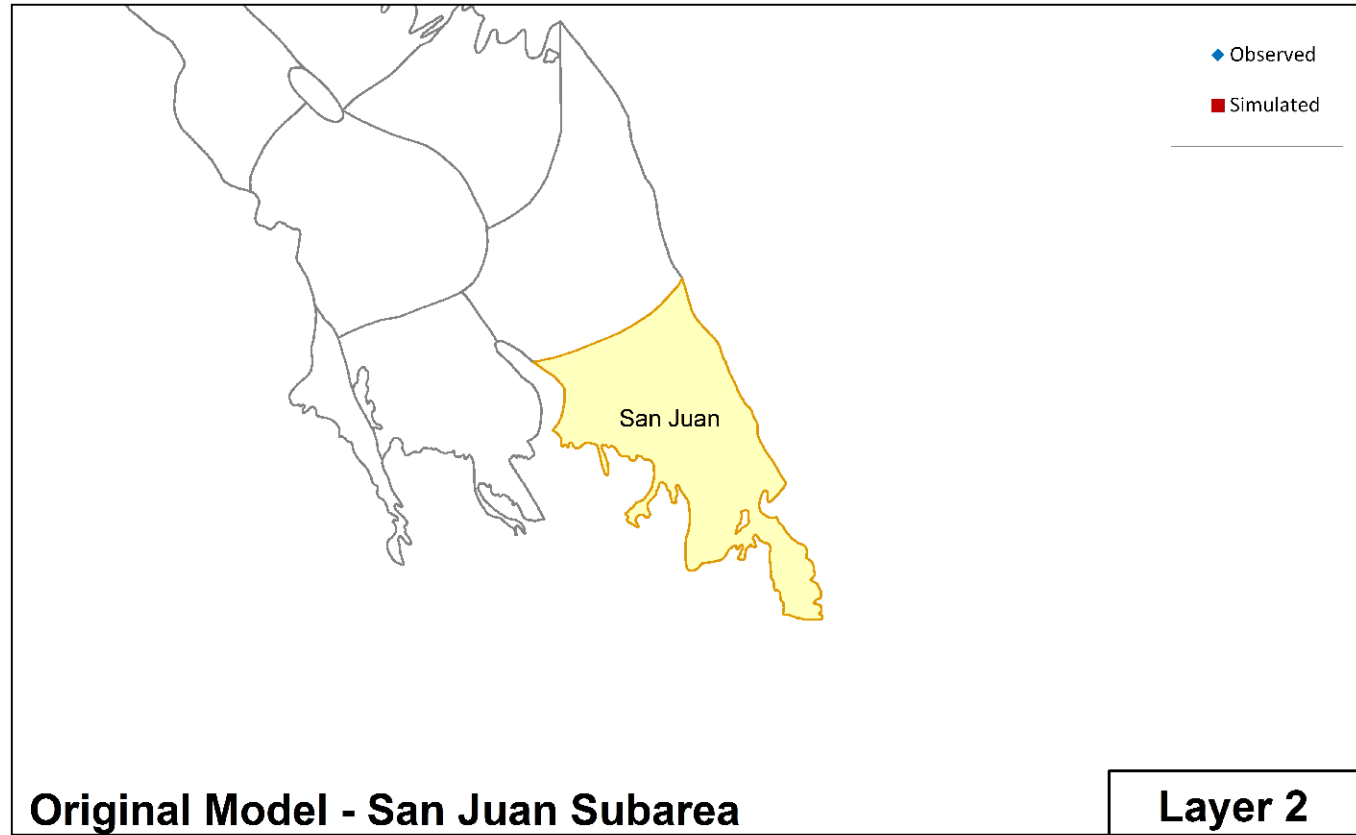
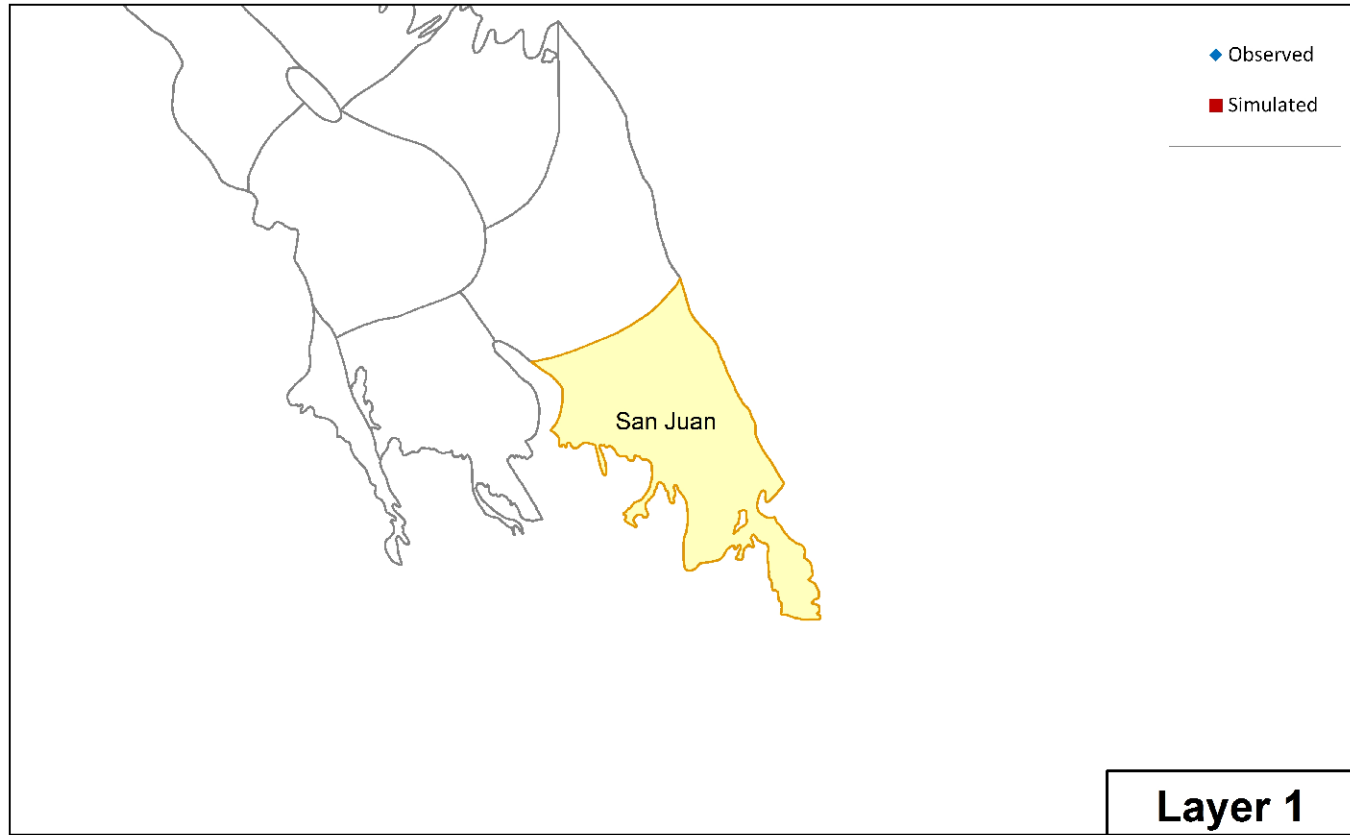


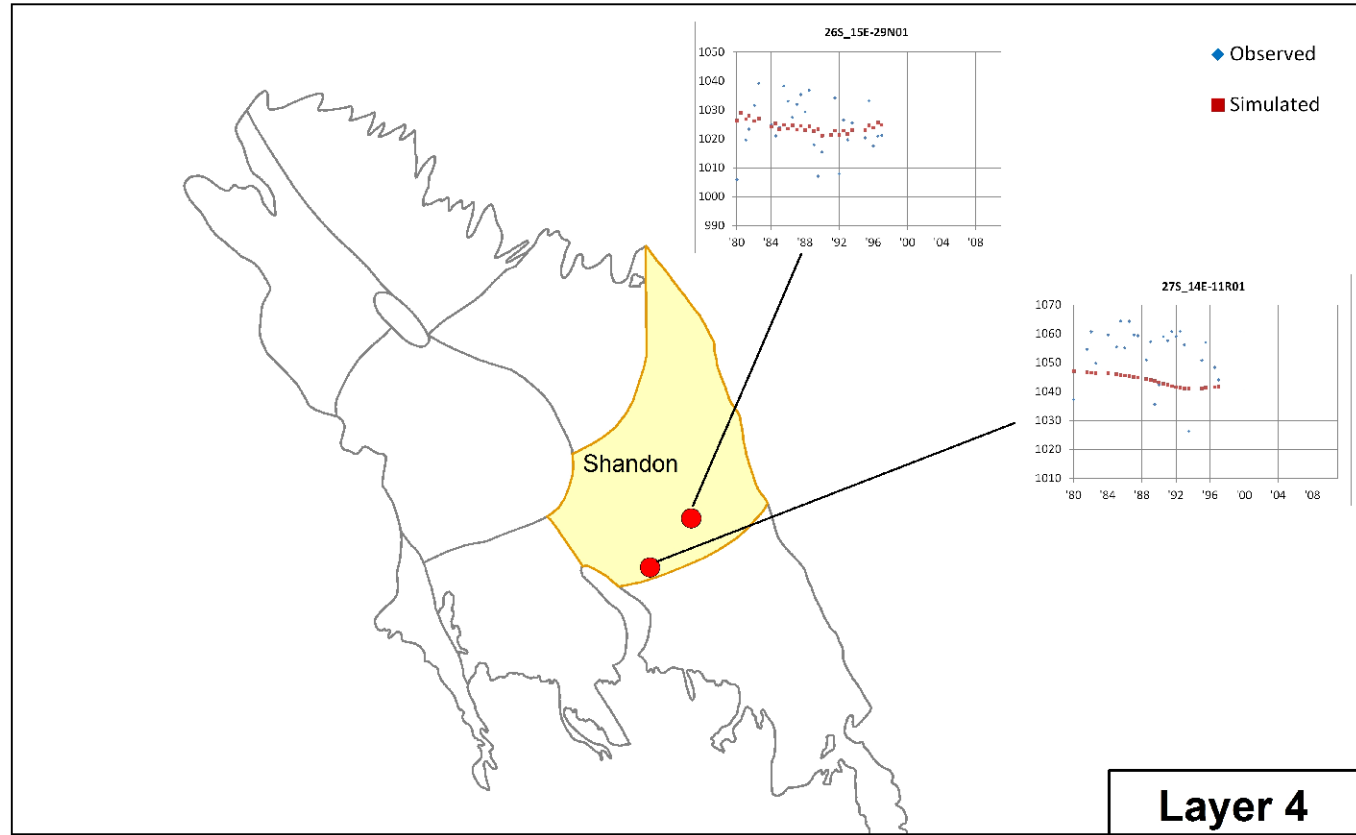
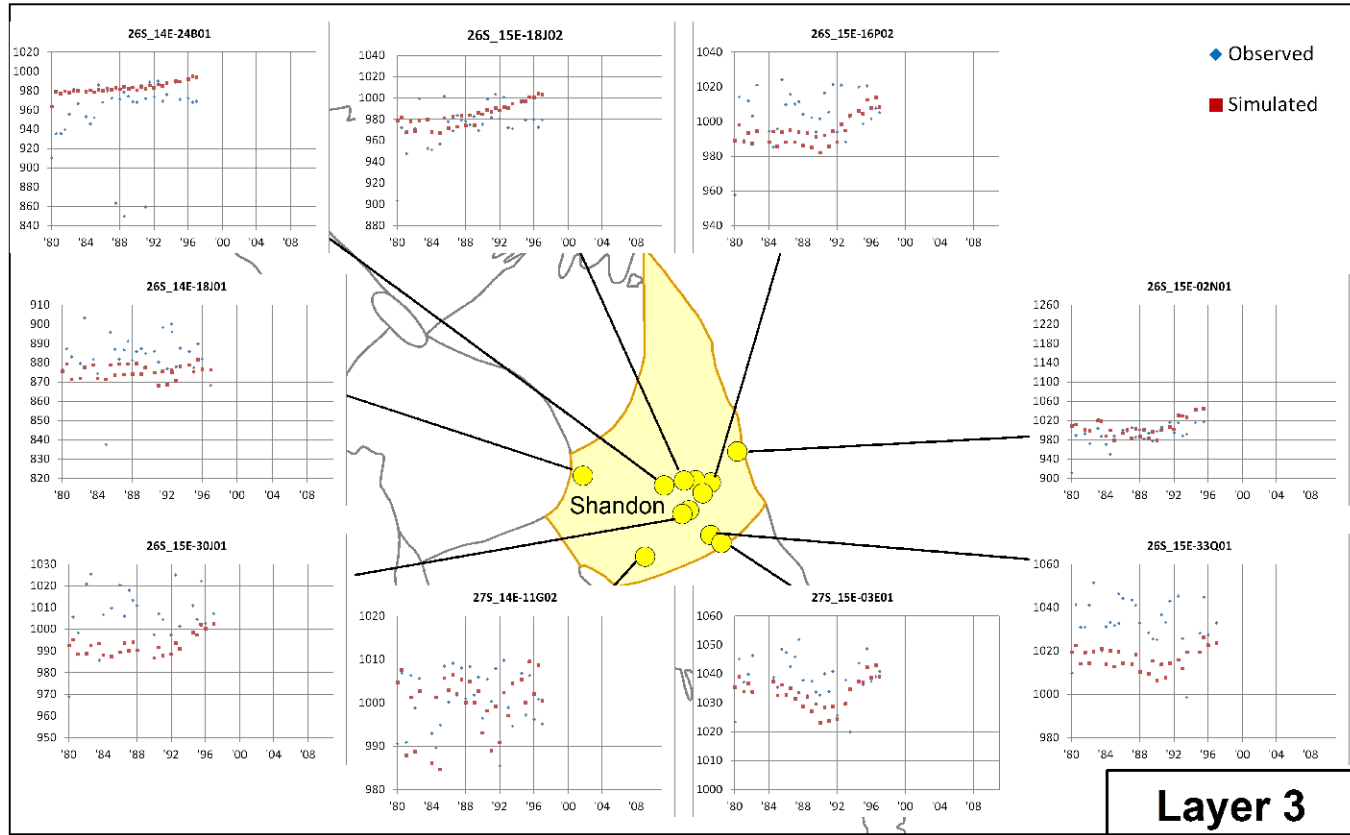
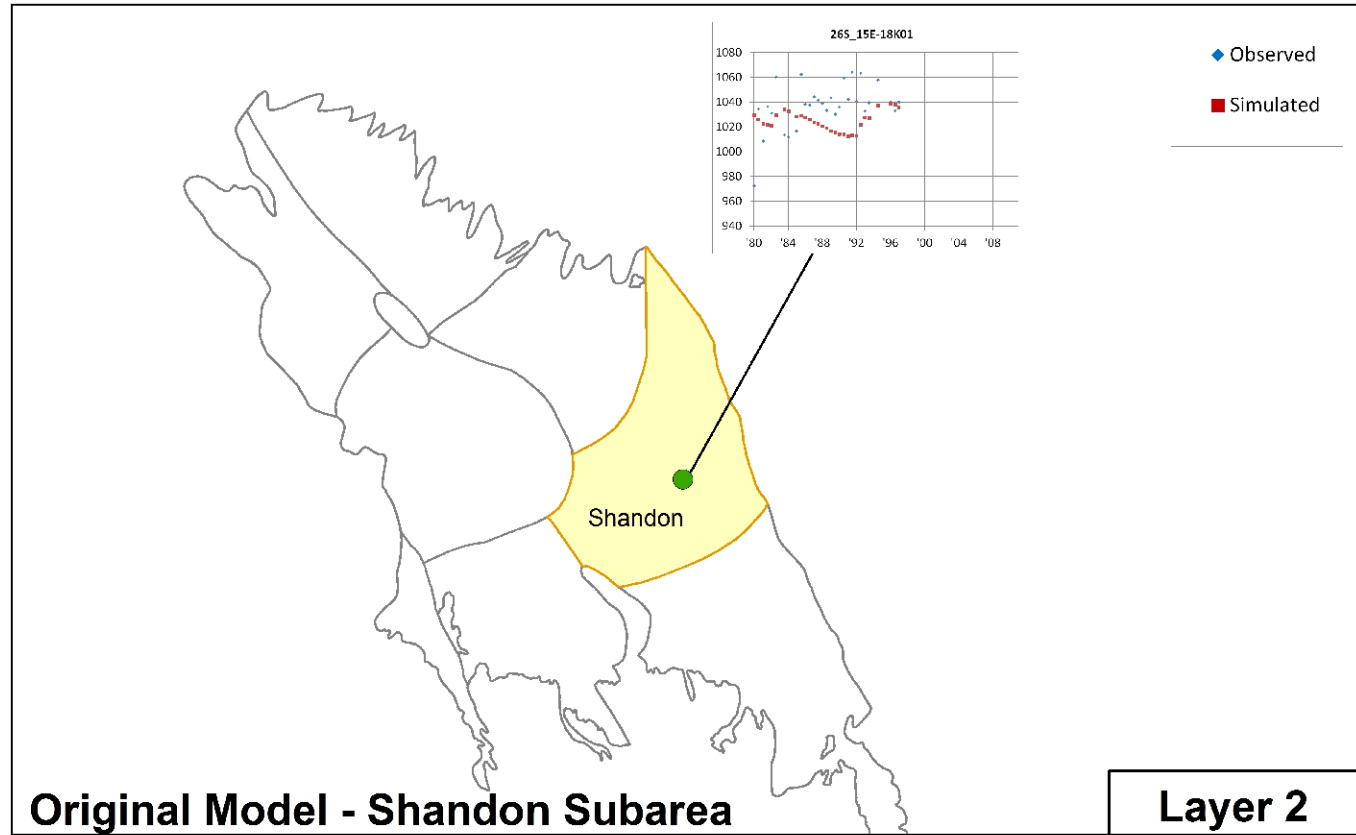
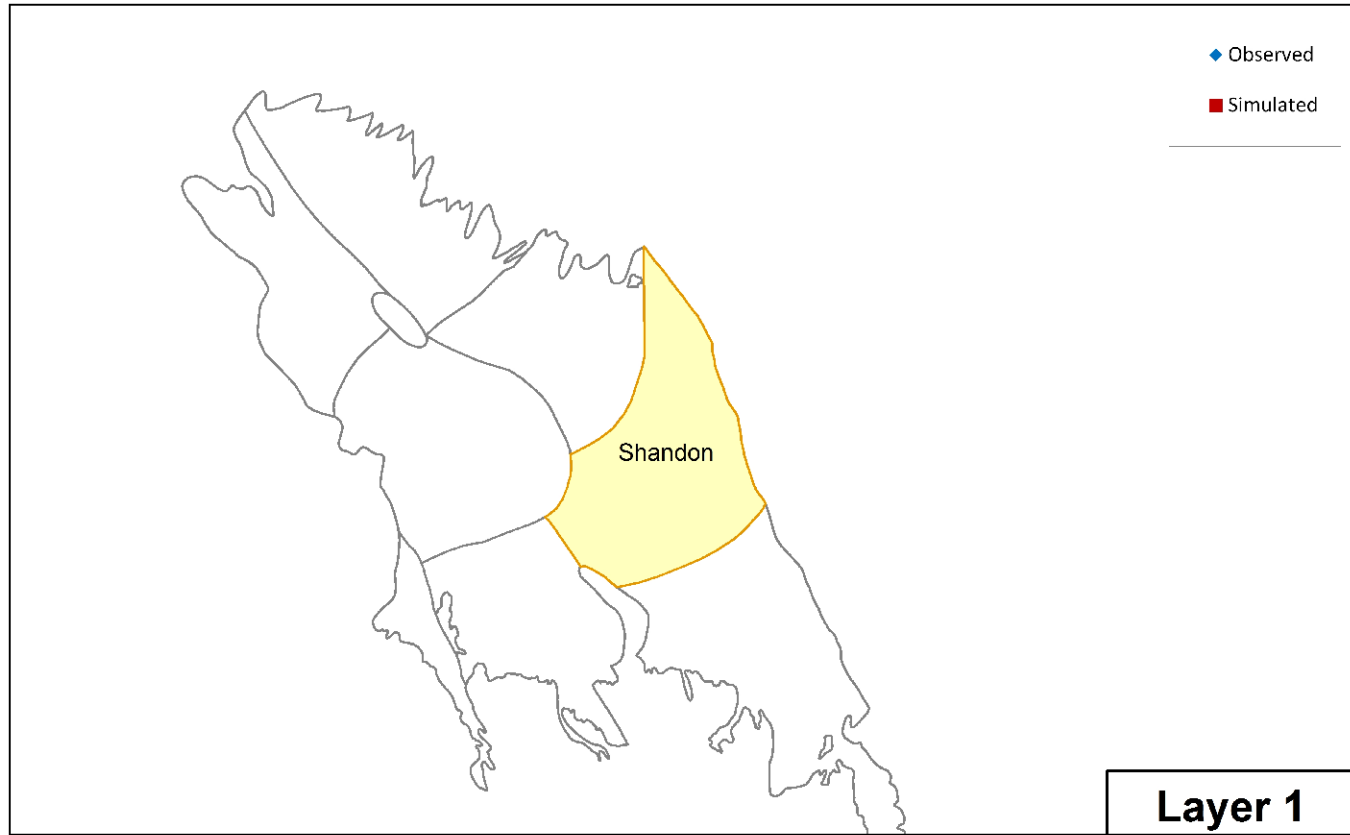


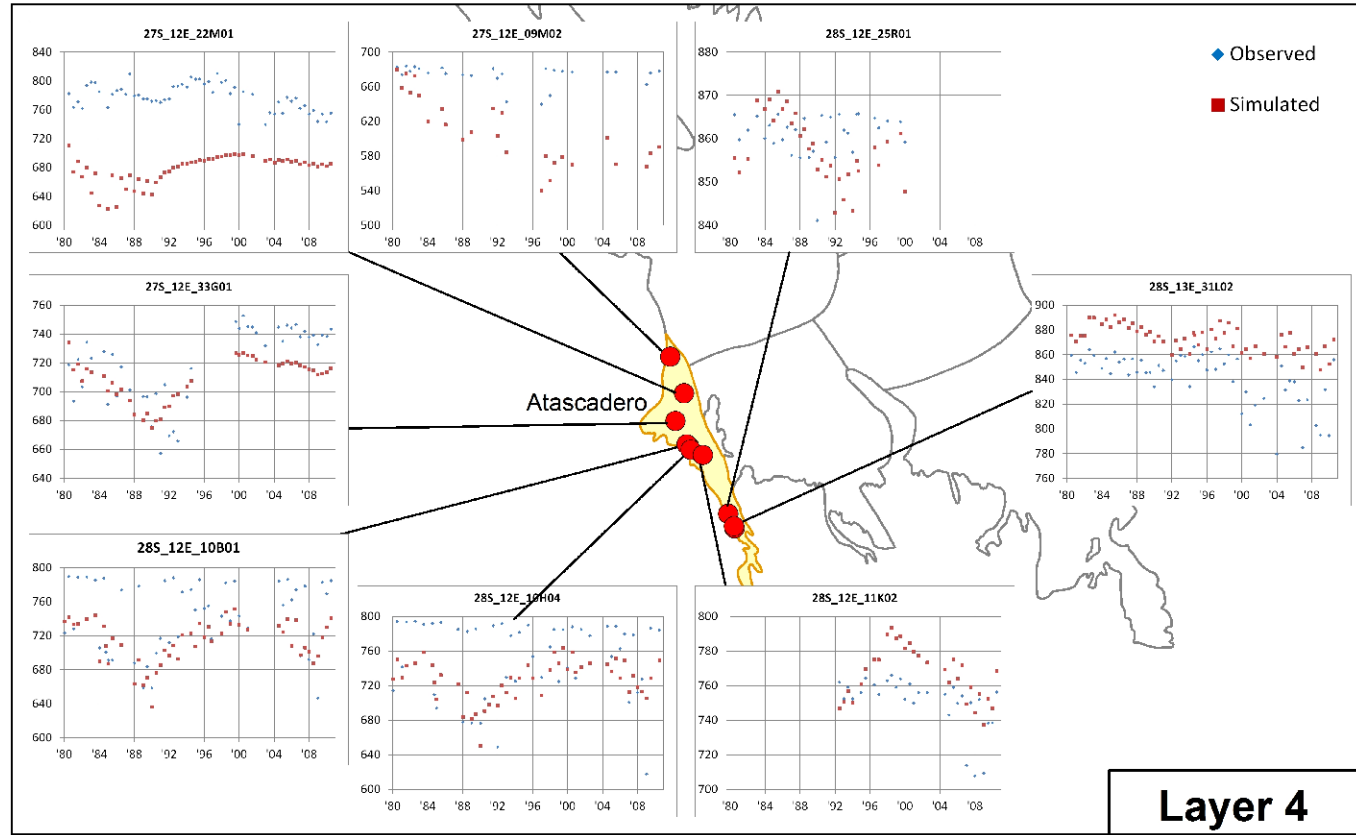
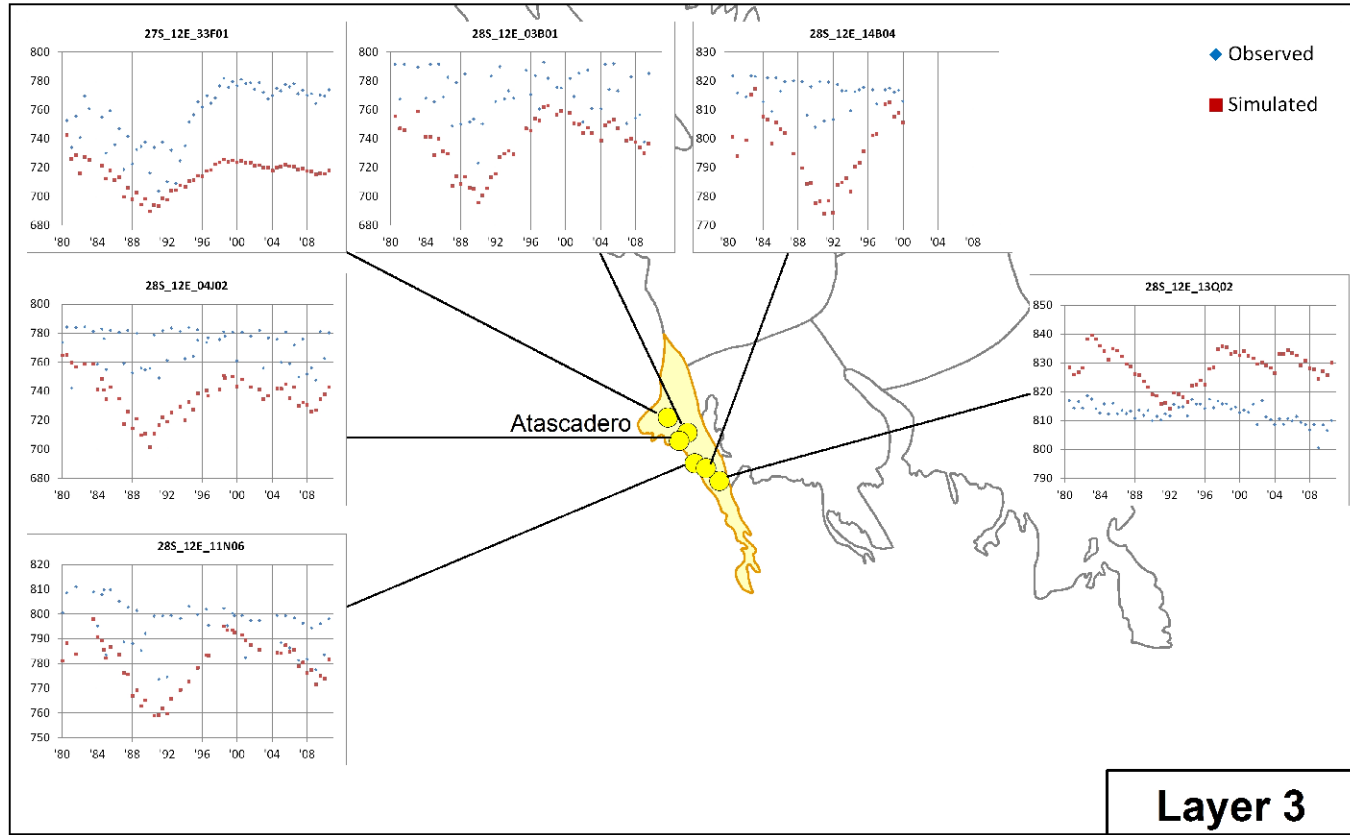
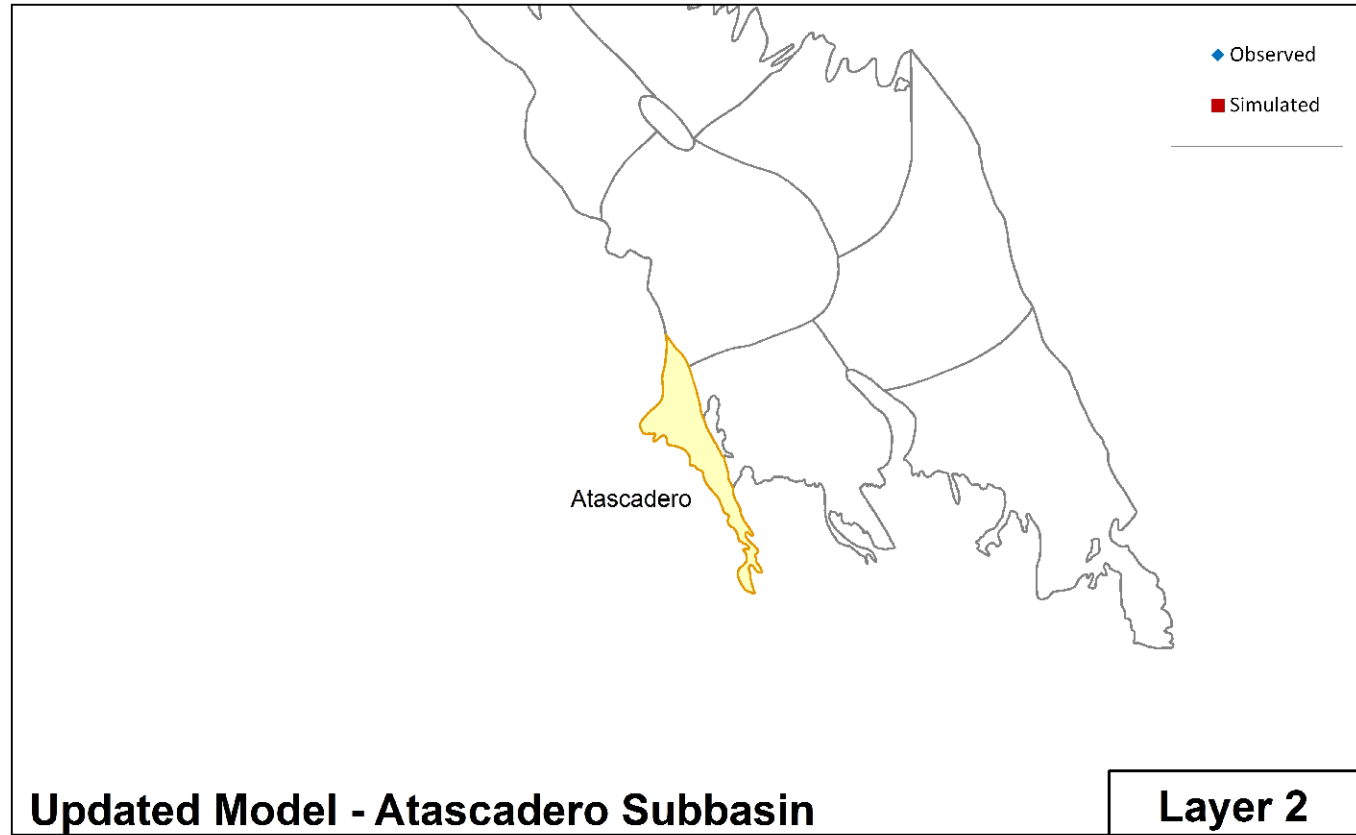
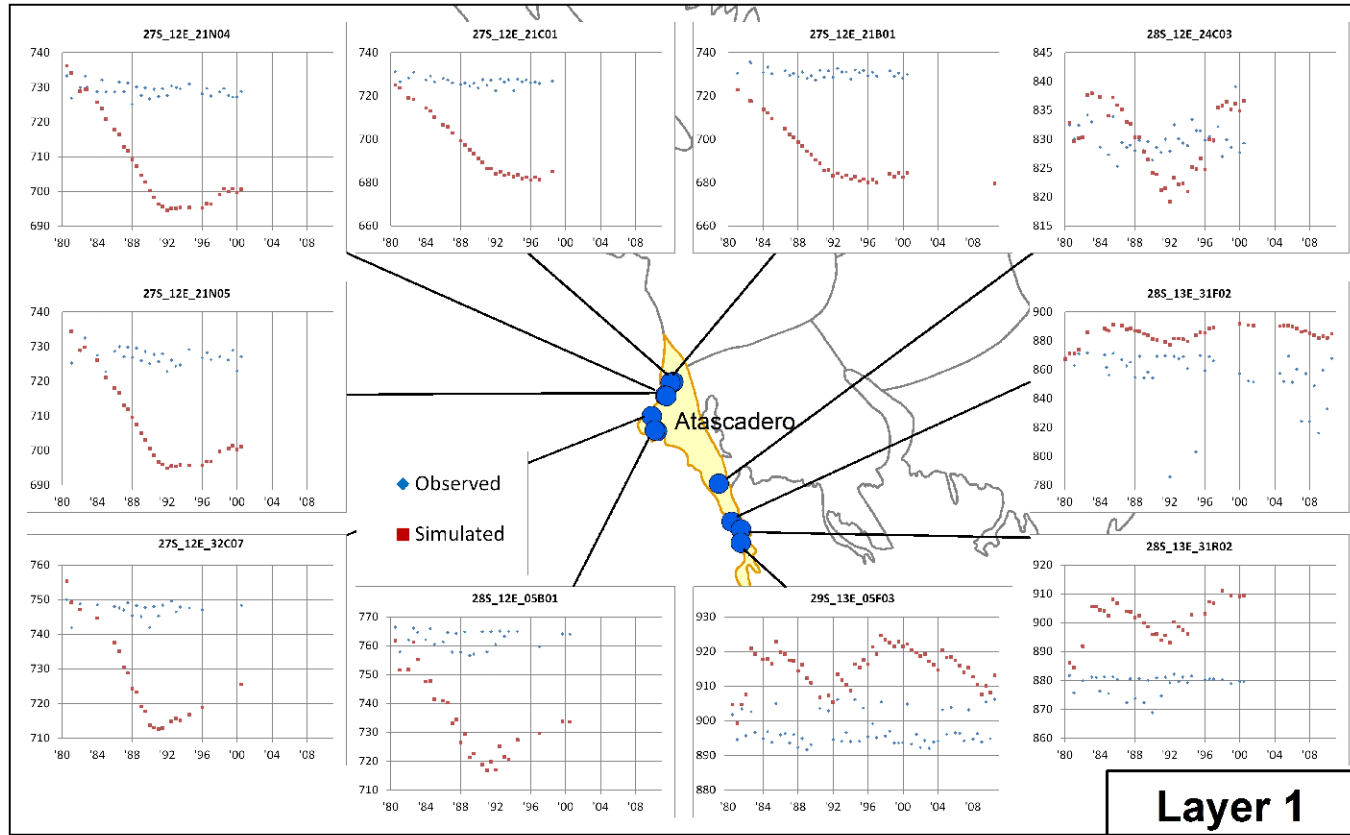


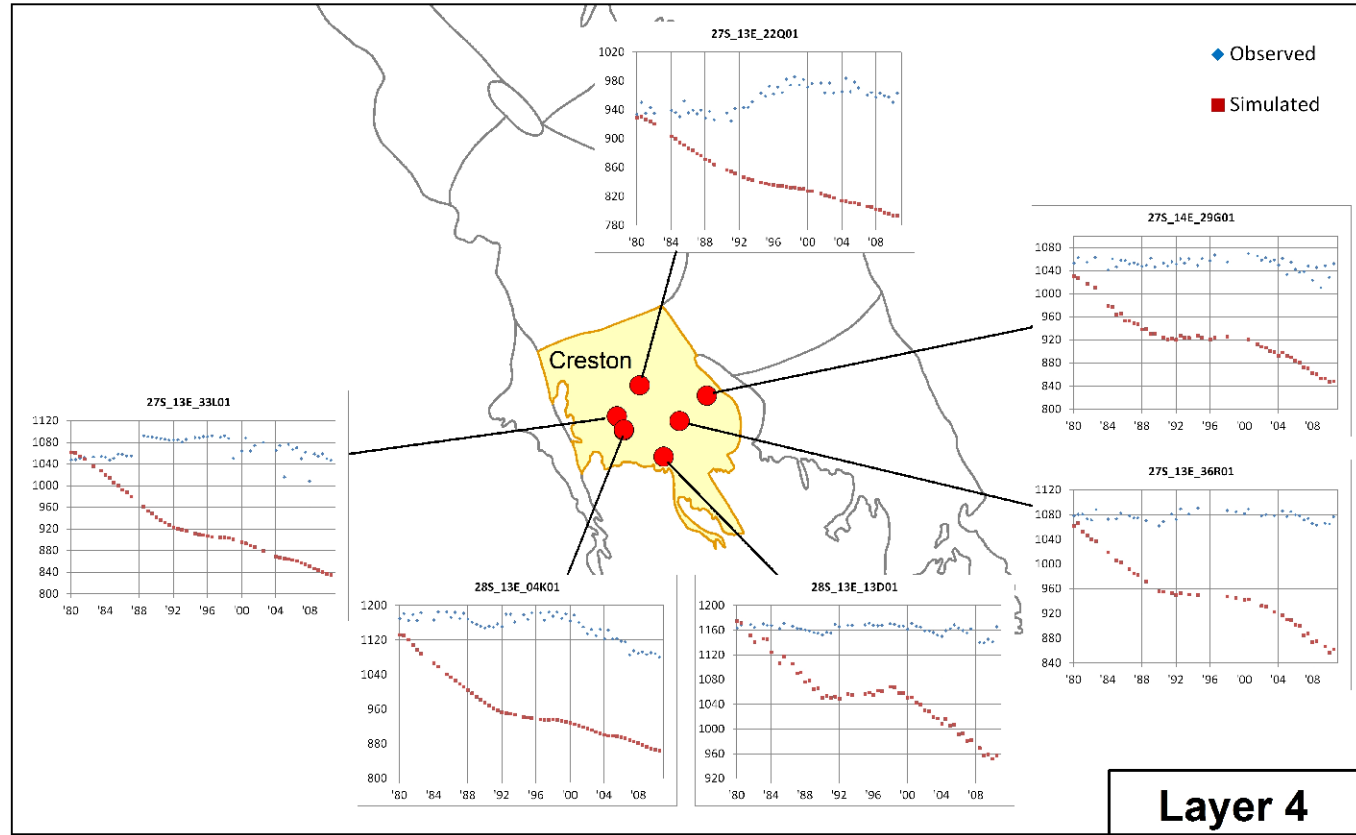
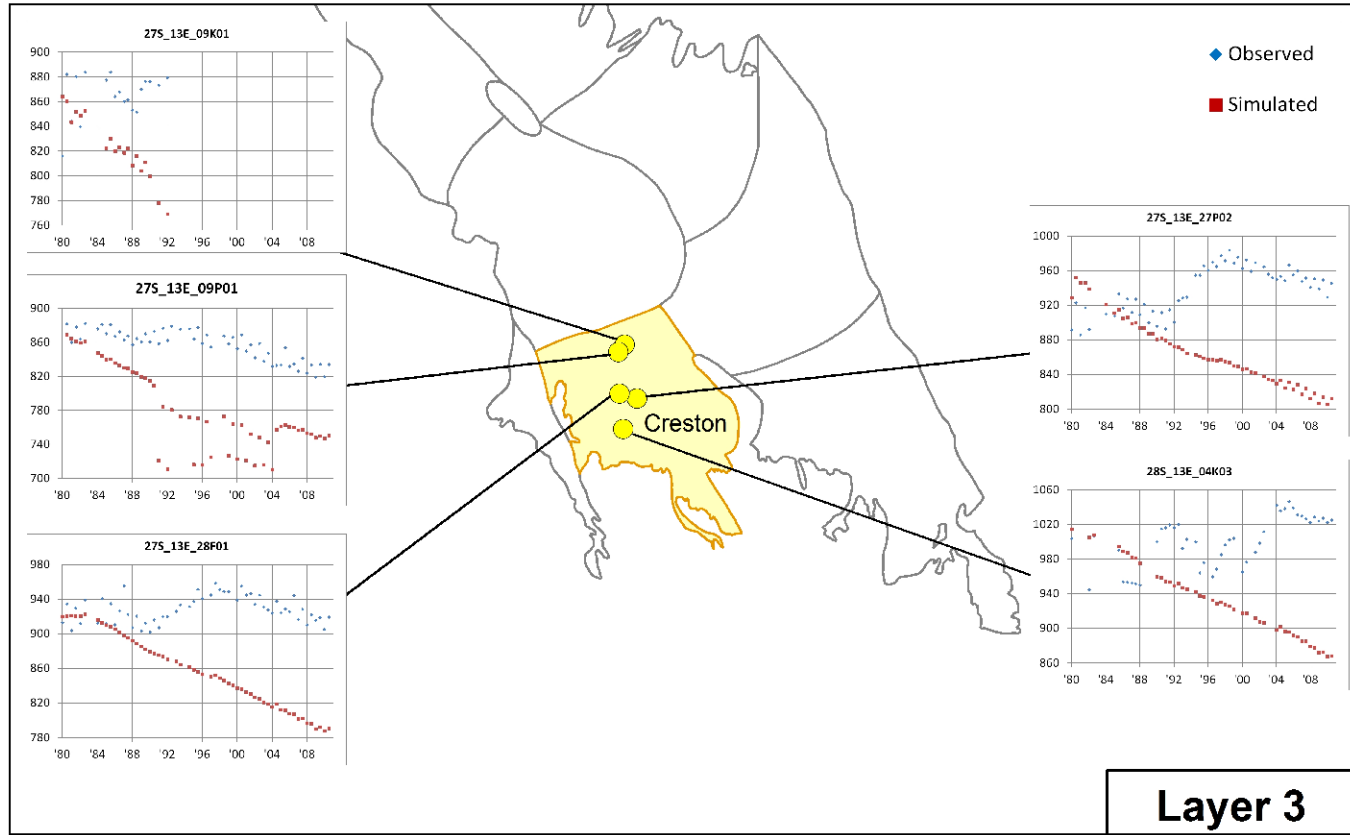
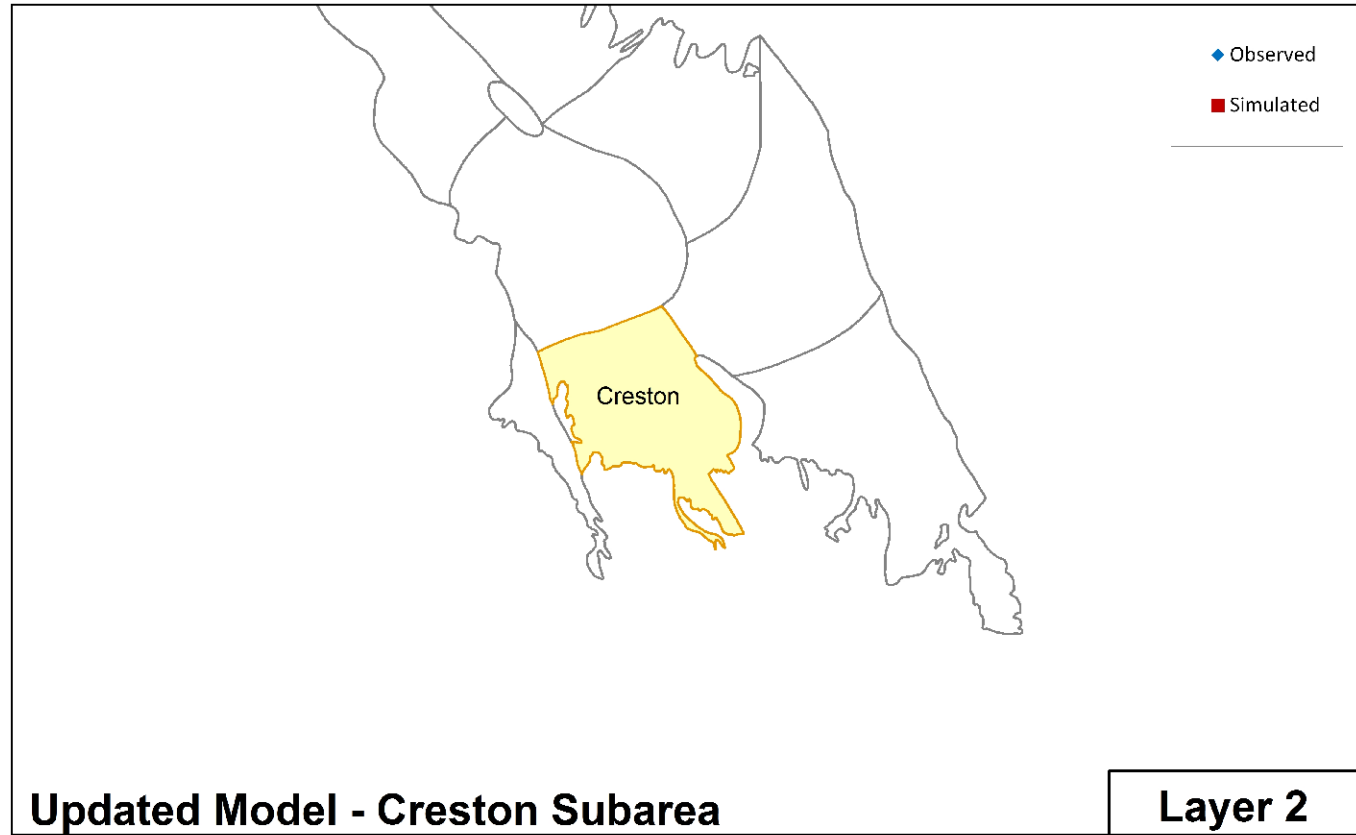
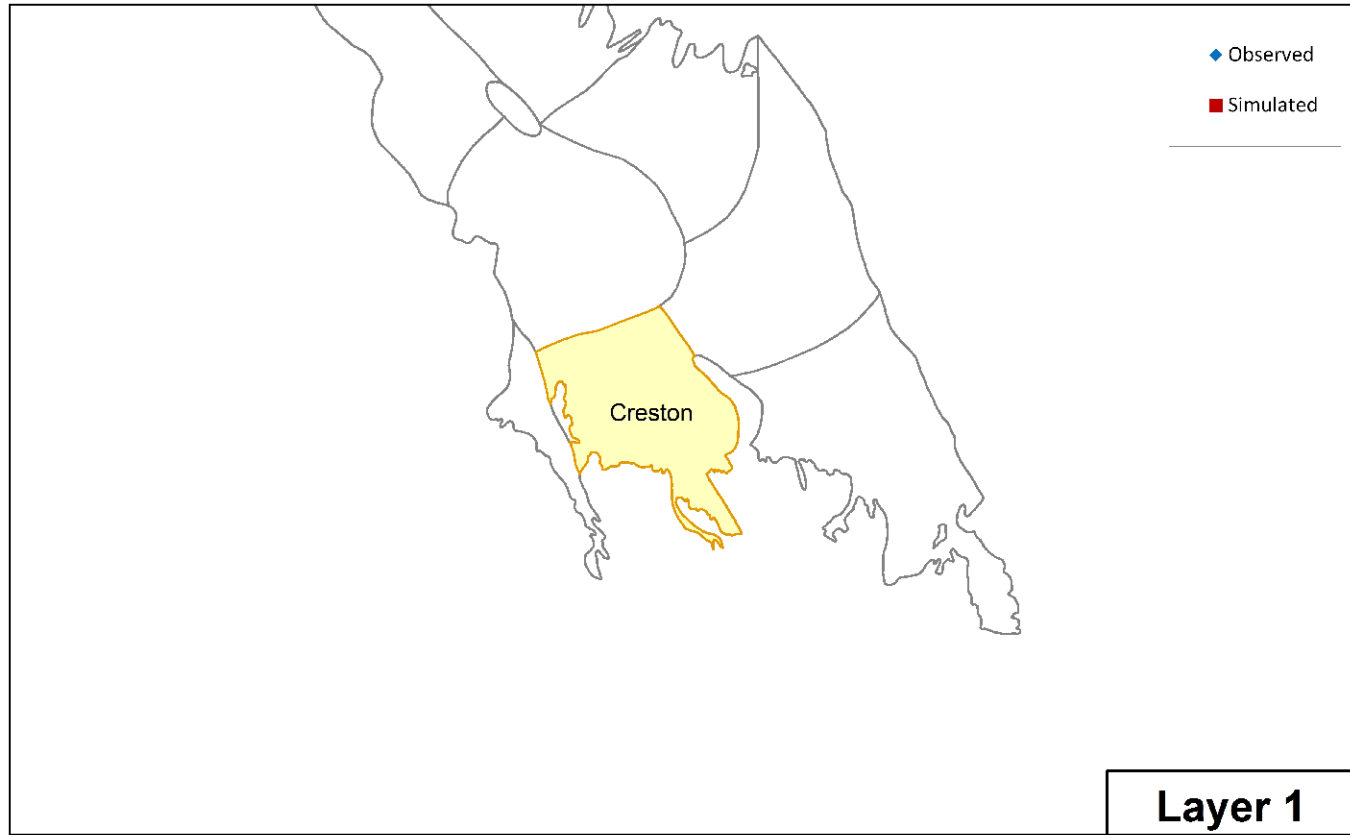


Path: T:\projects\BPR\San\_Juan\_Model\UWA\80201\GIS\Map\Emul\_Model\Record\Figure\_74\_Original\_Model\_Observed\_Vs\_Simulated\_Groundwater\_Elevations - San\_Juan\_Subarea.mxd



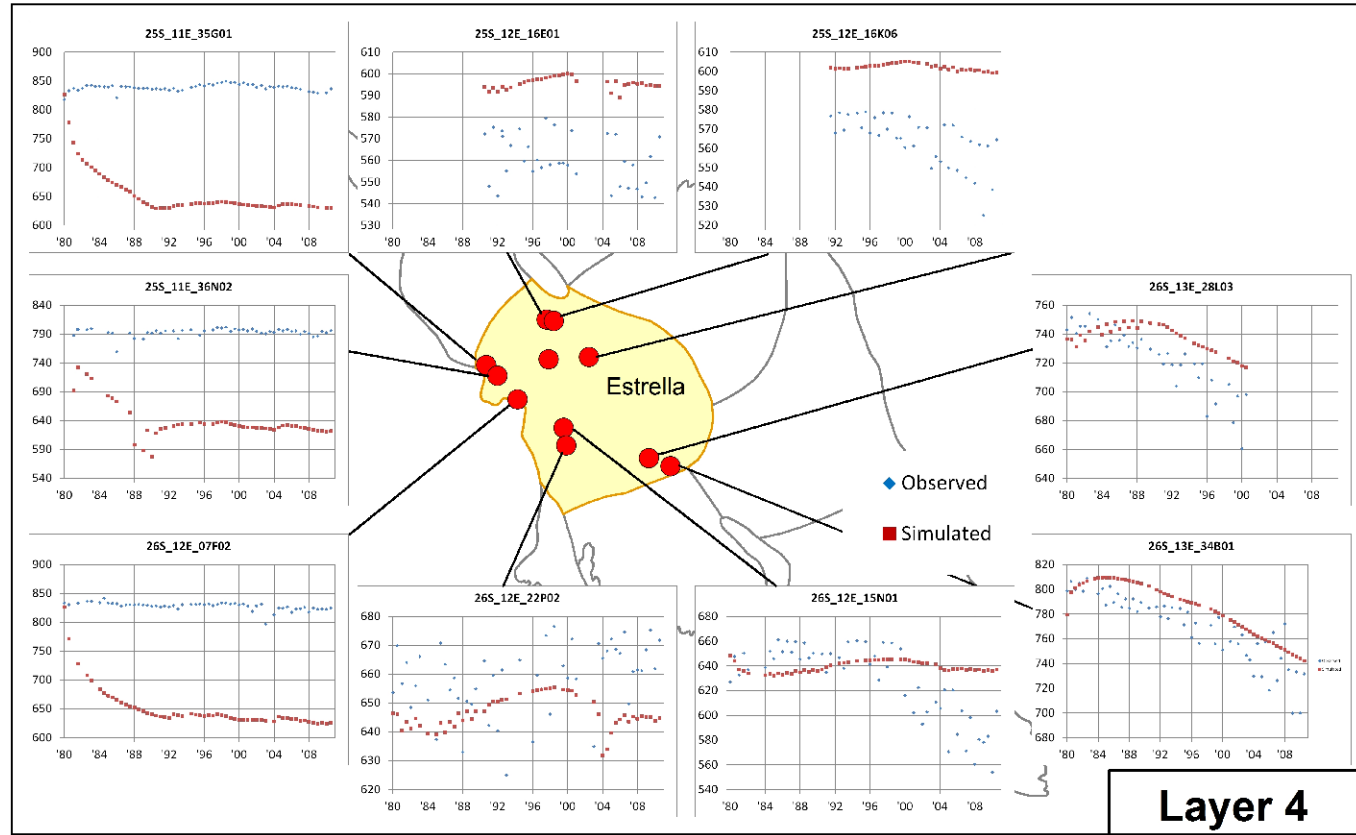
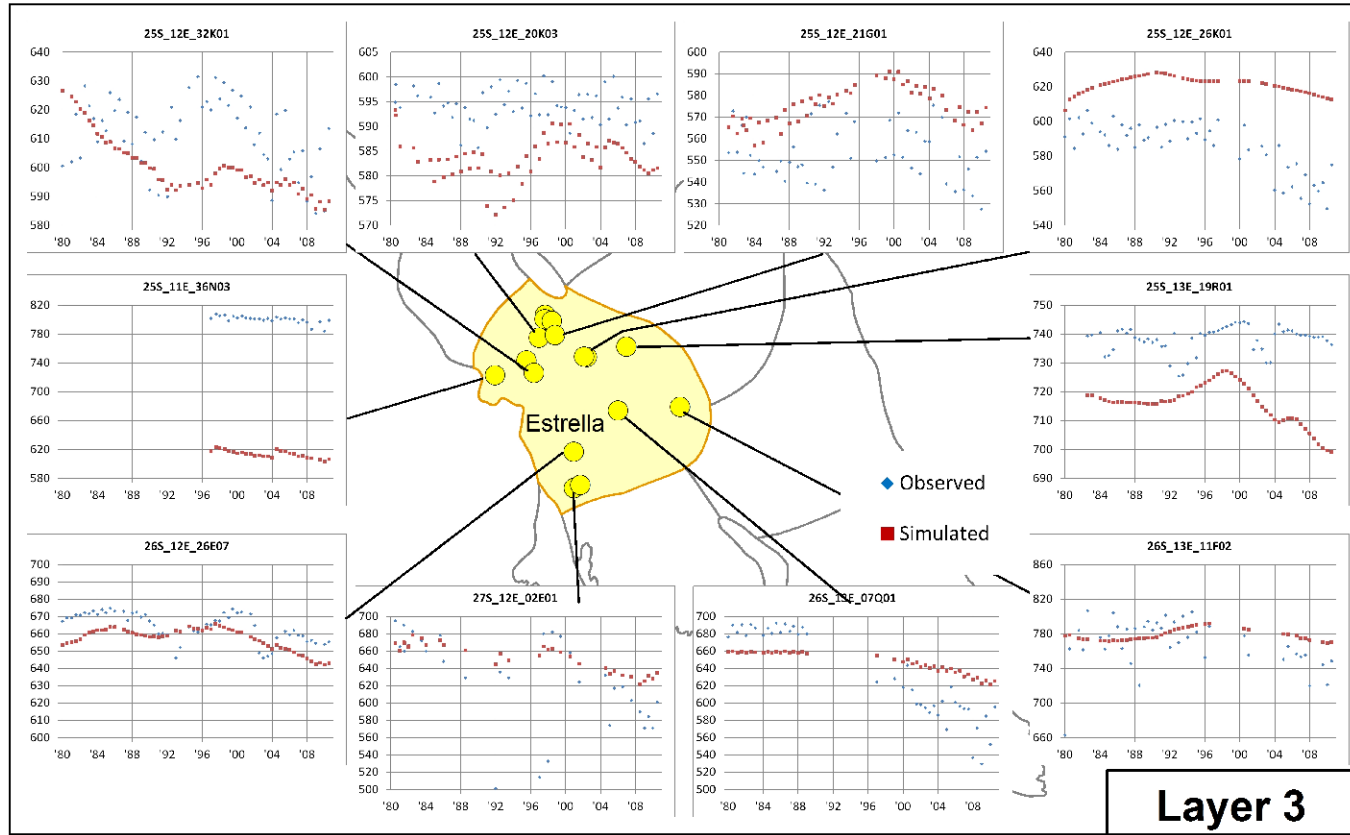
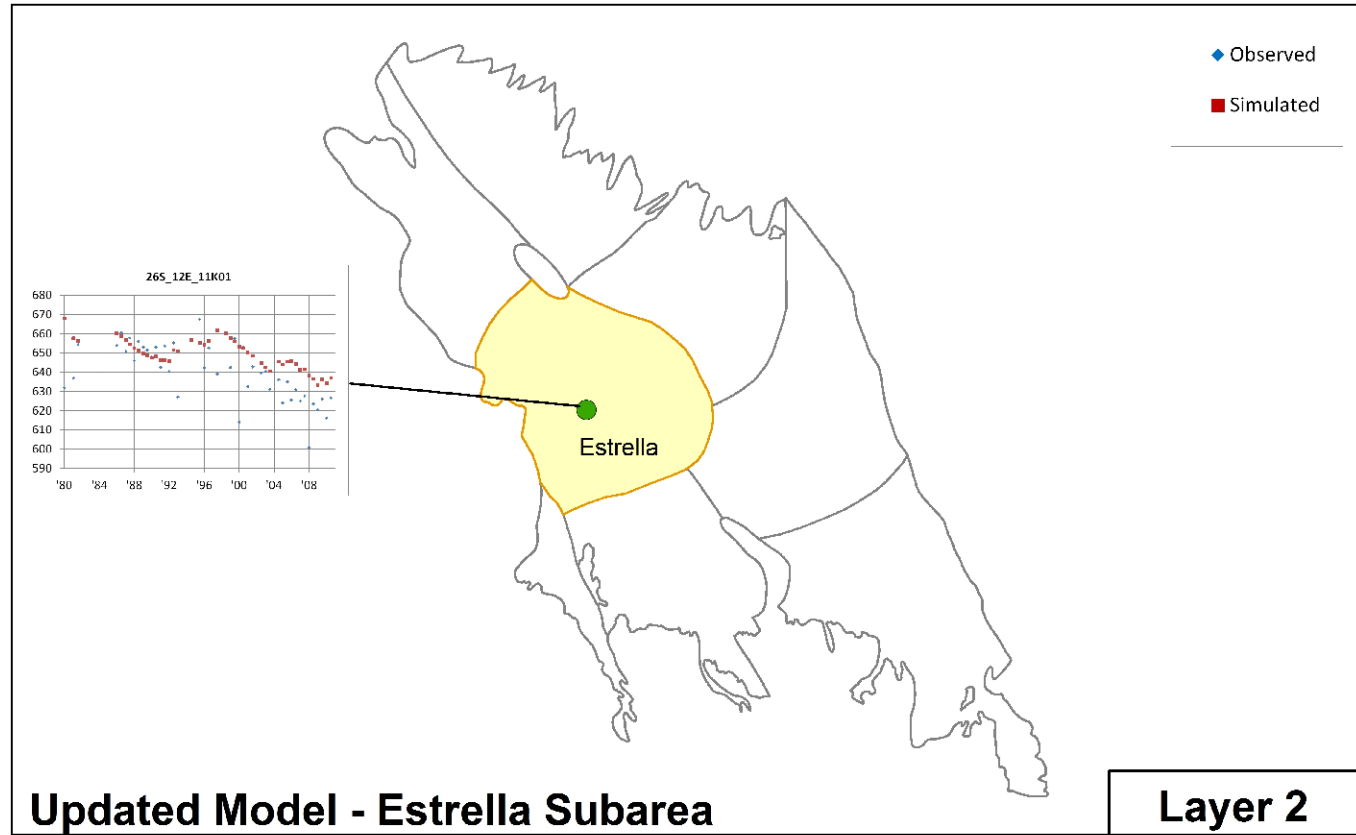
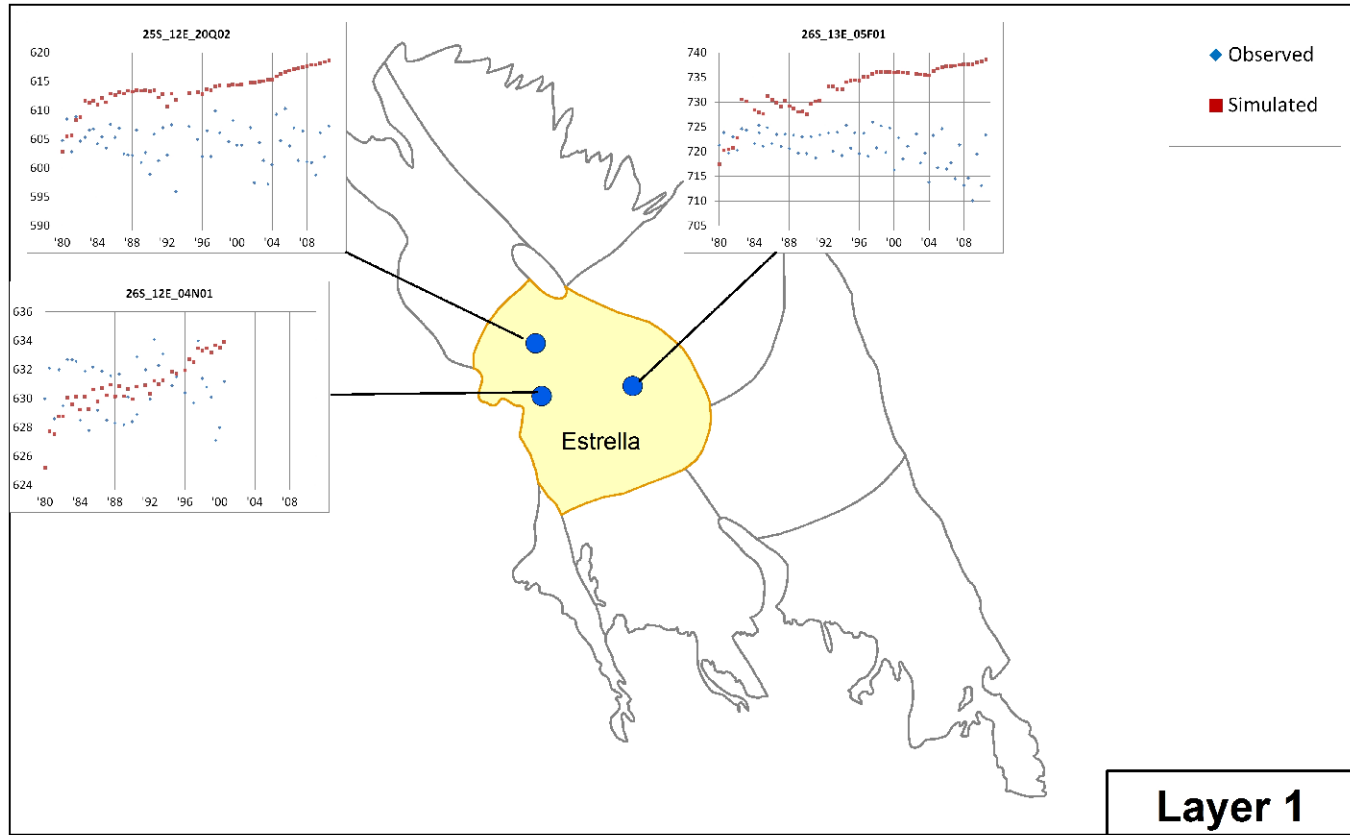


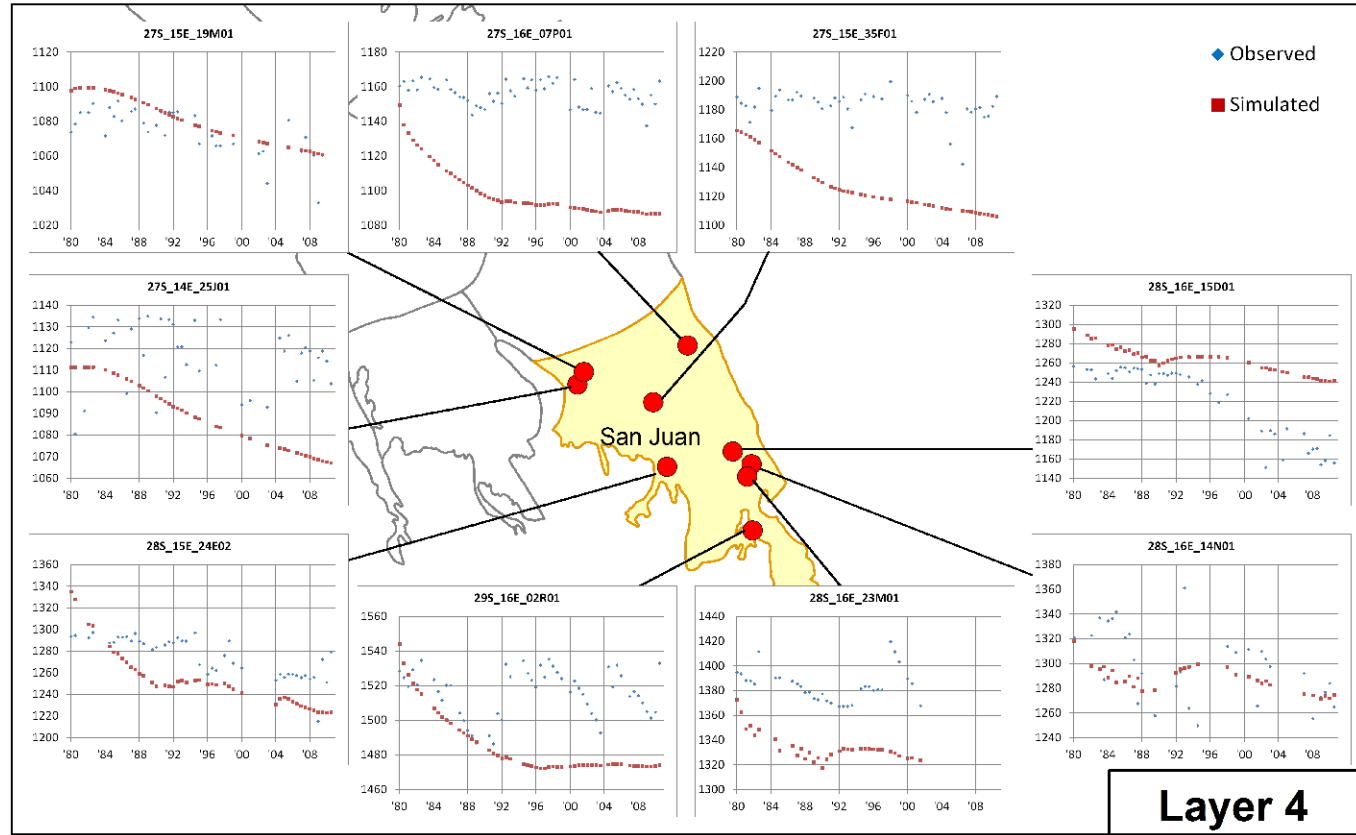
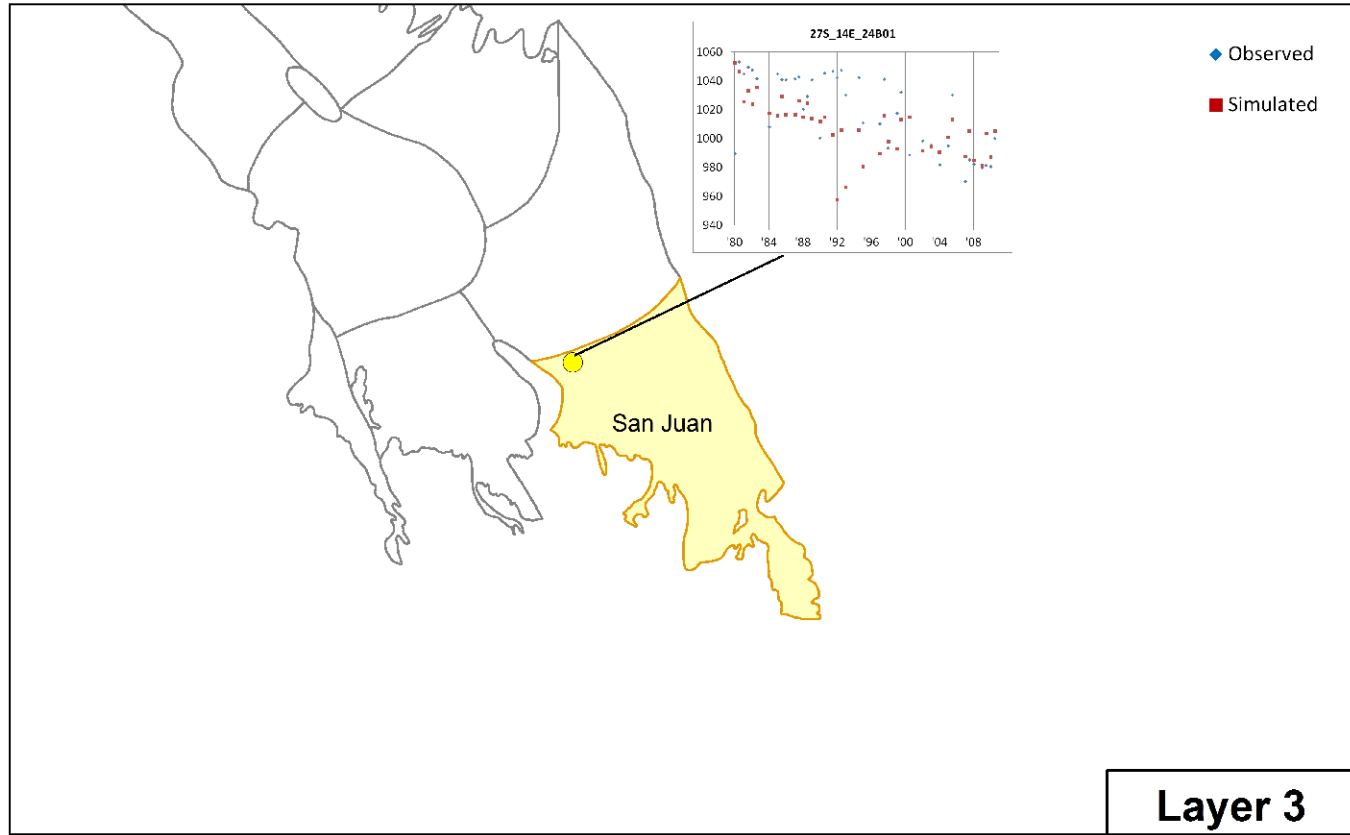
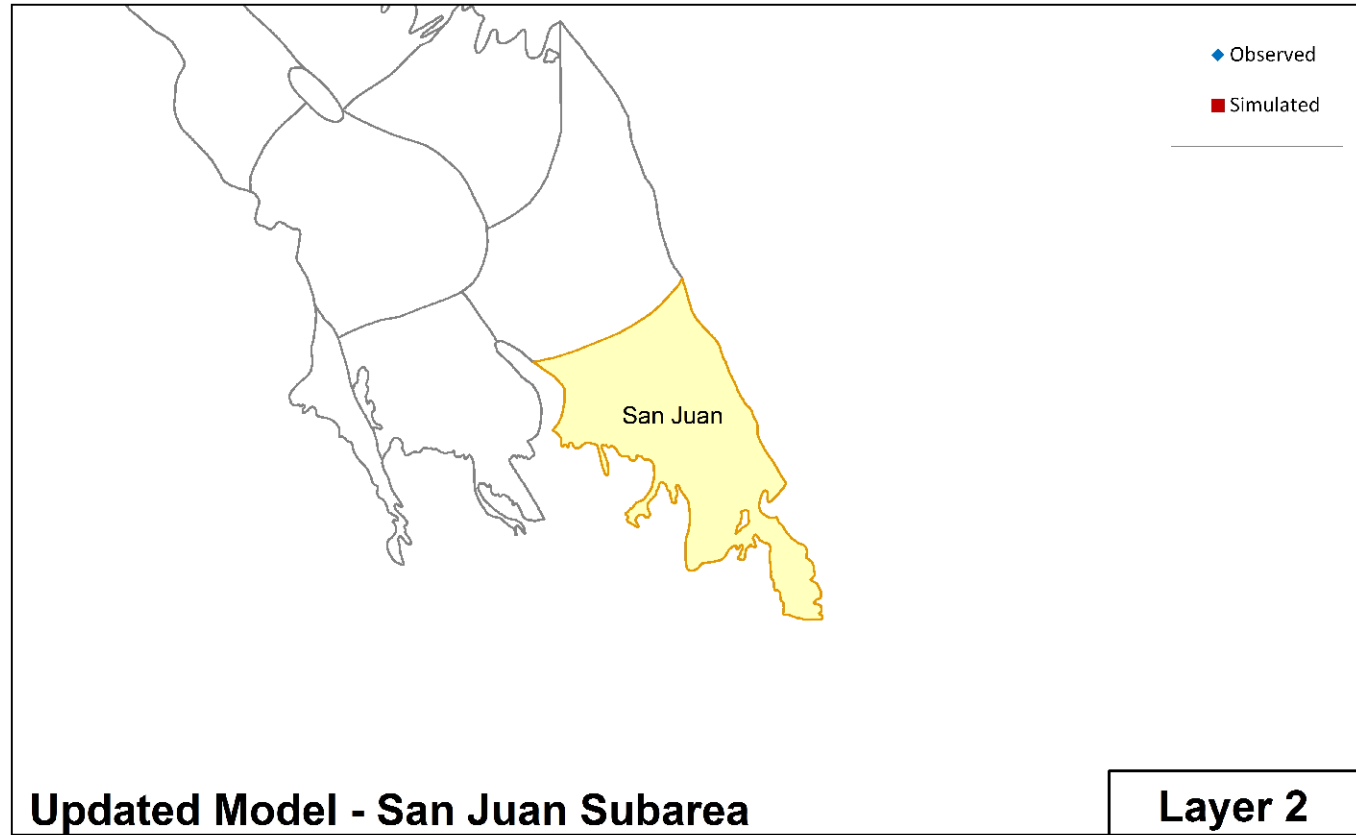
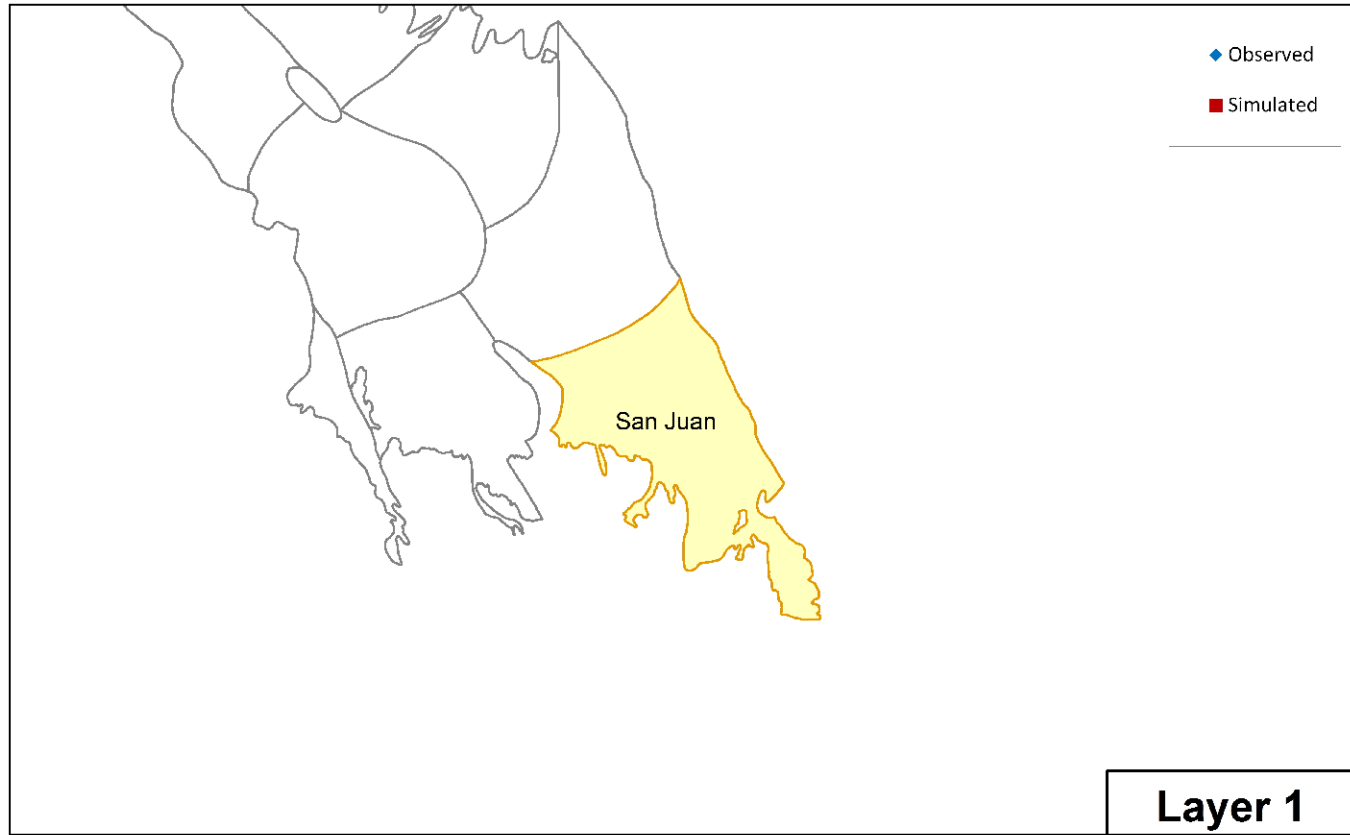


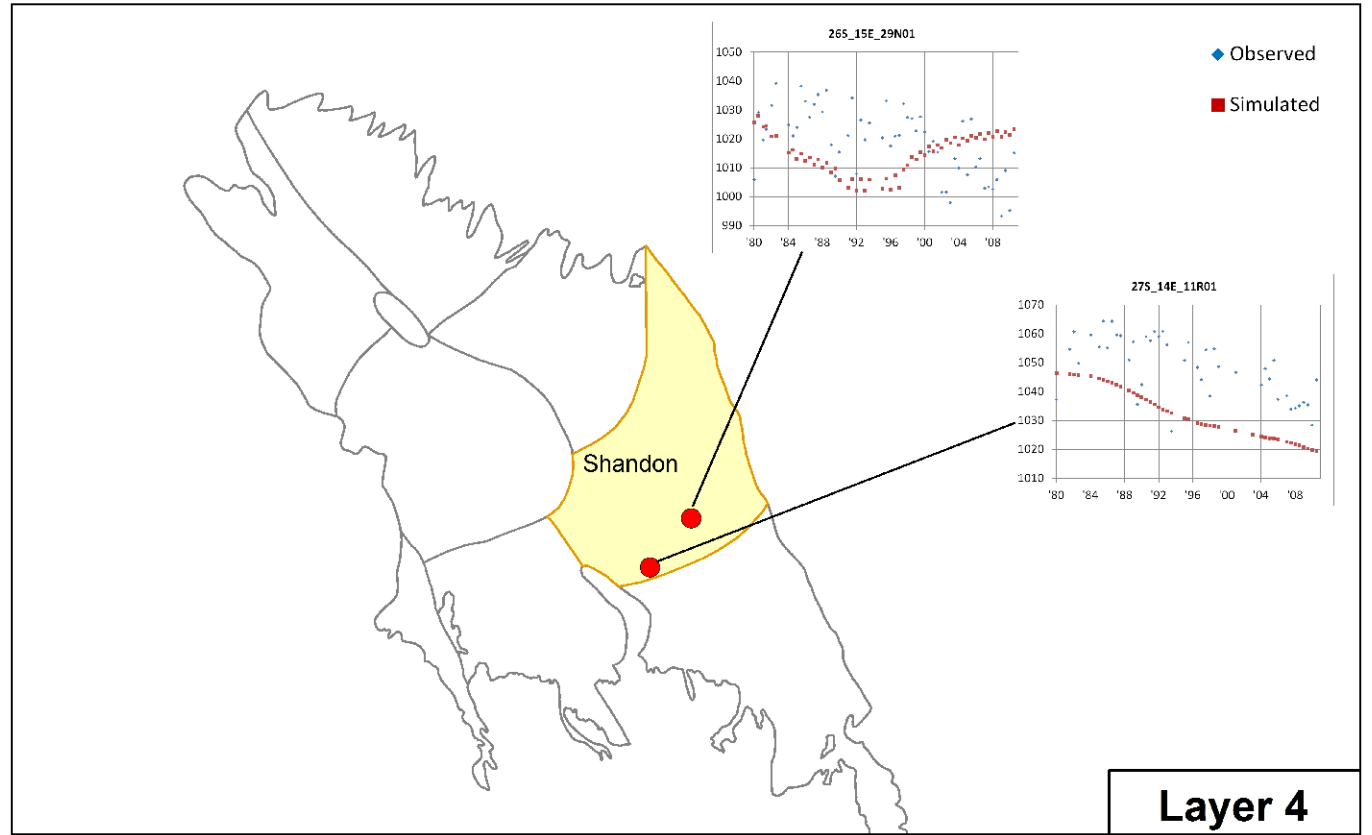
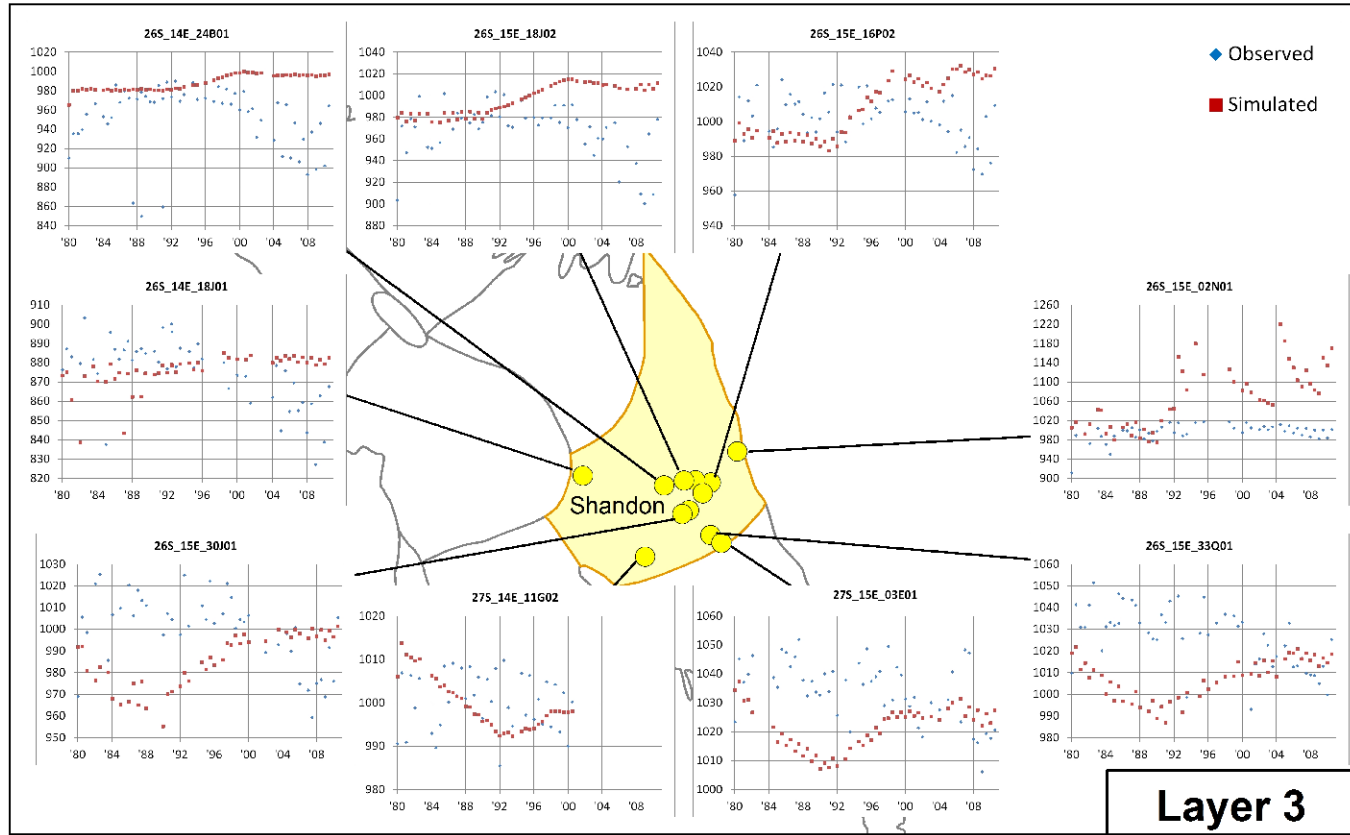
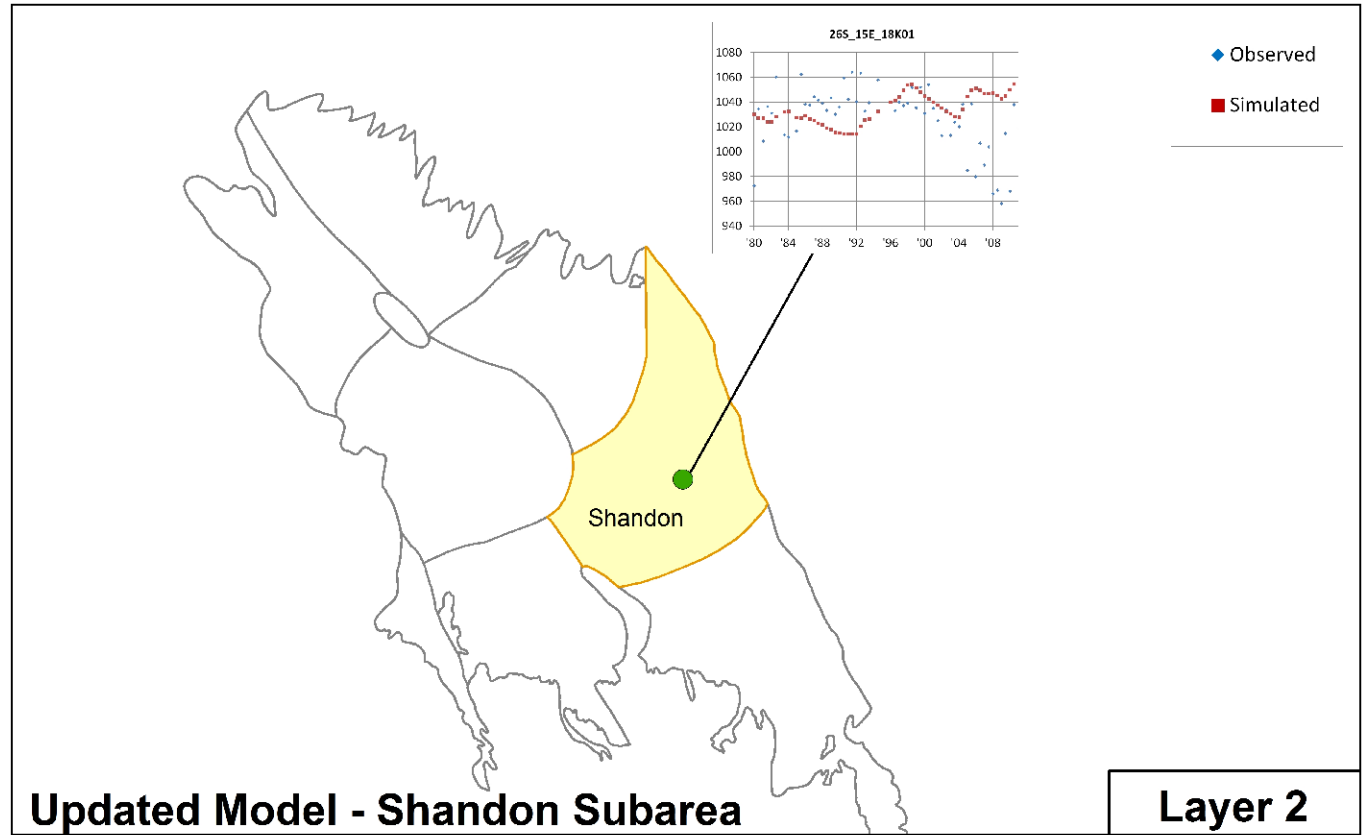
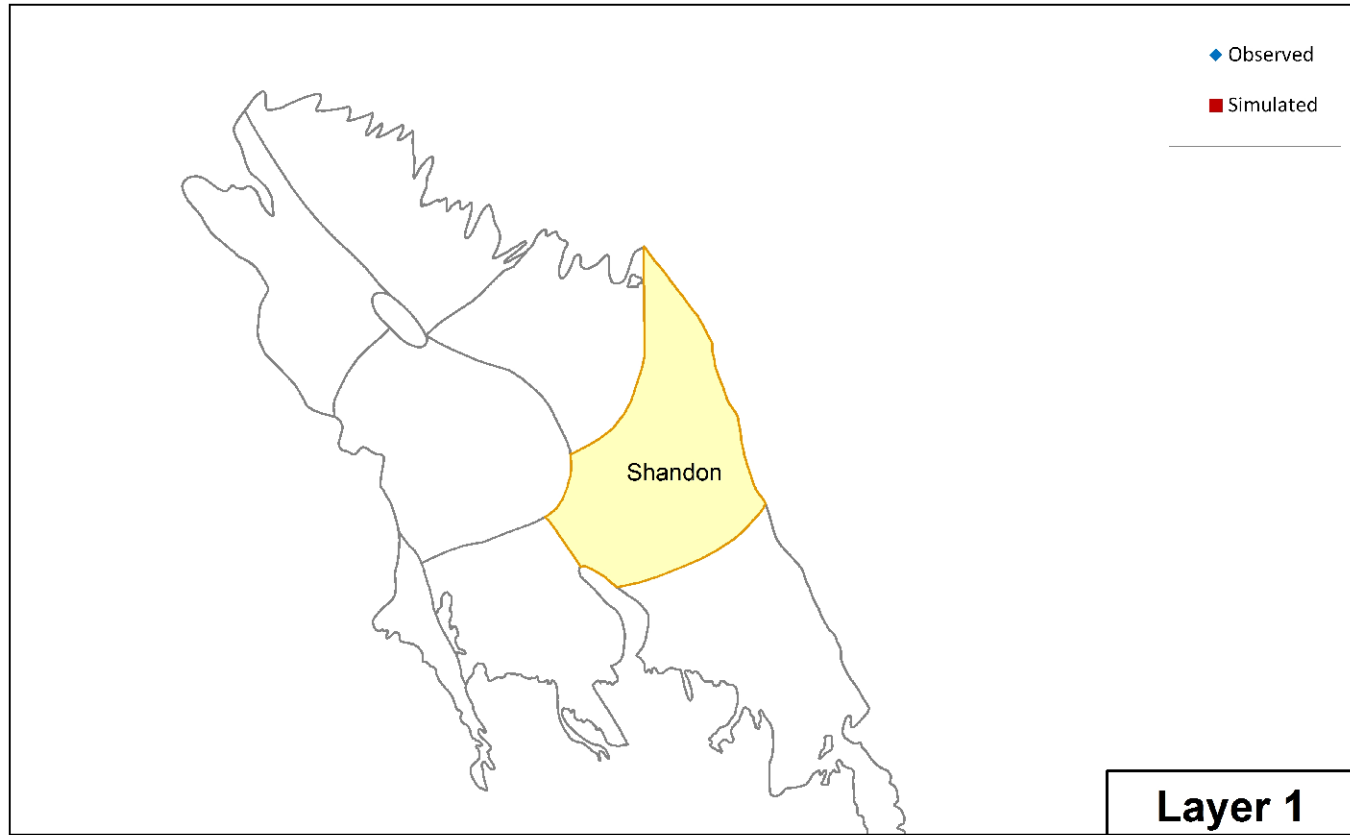


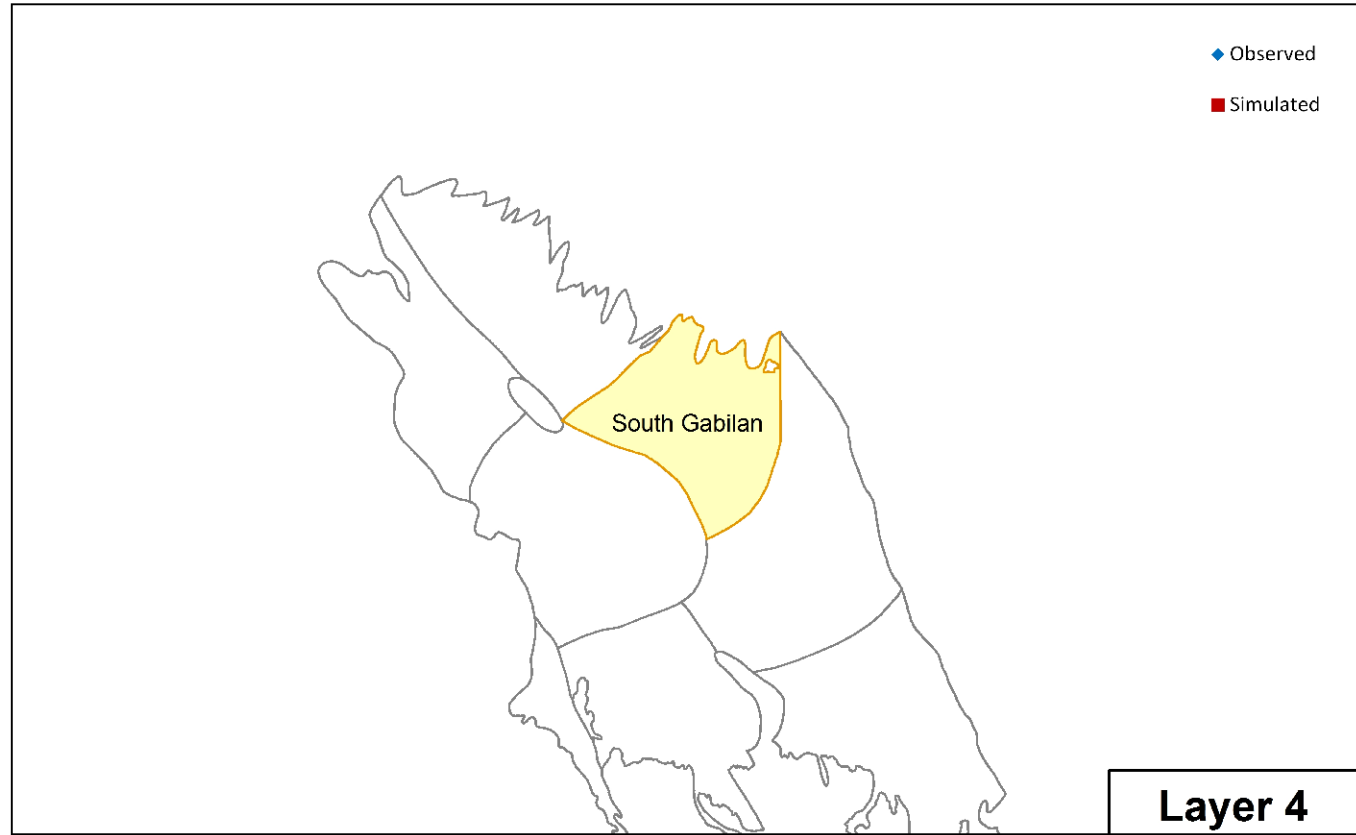
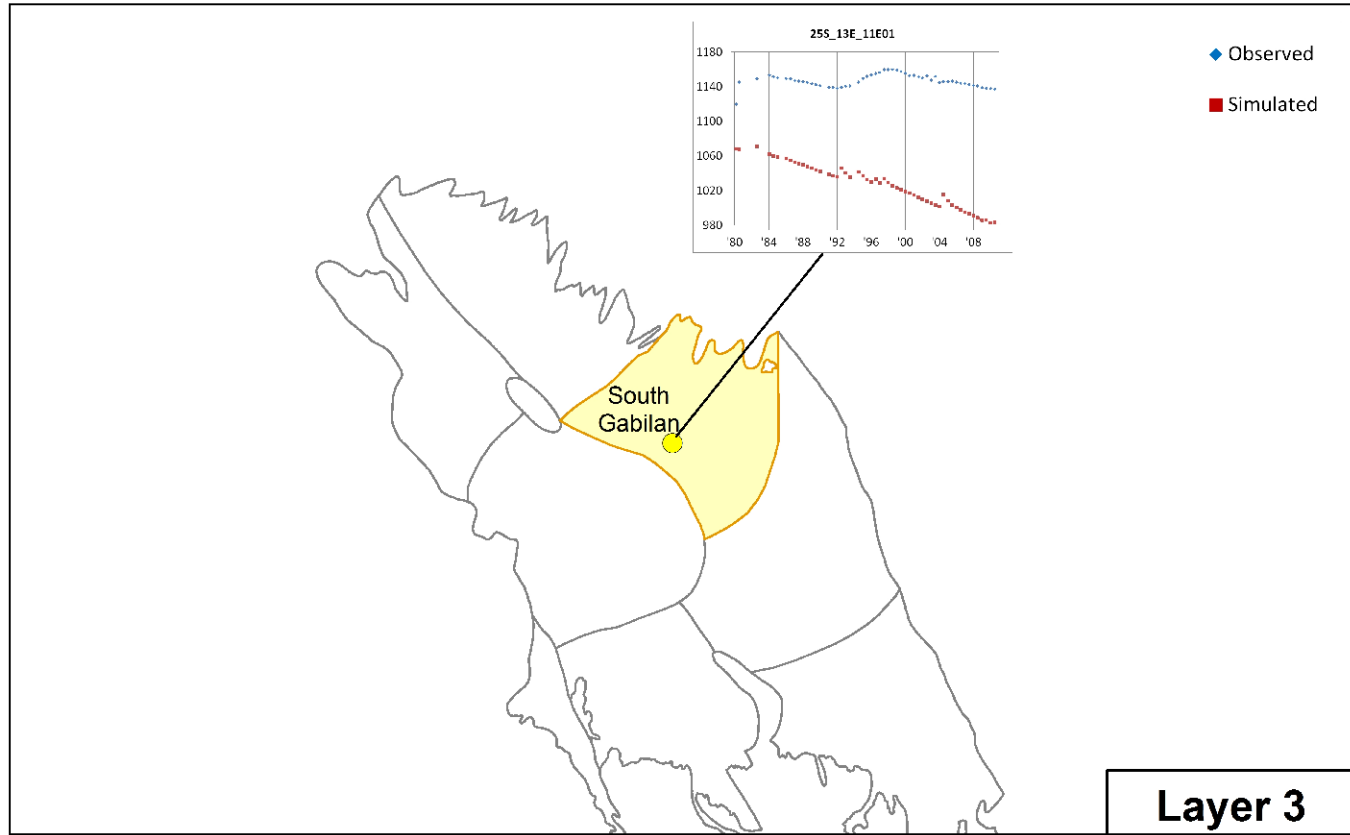
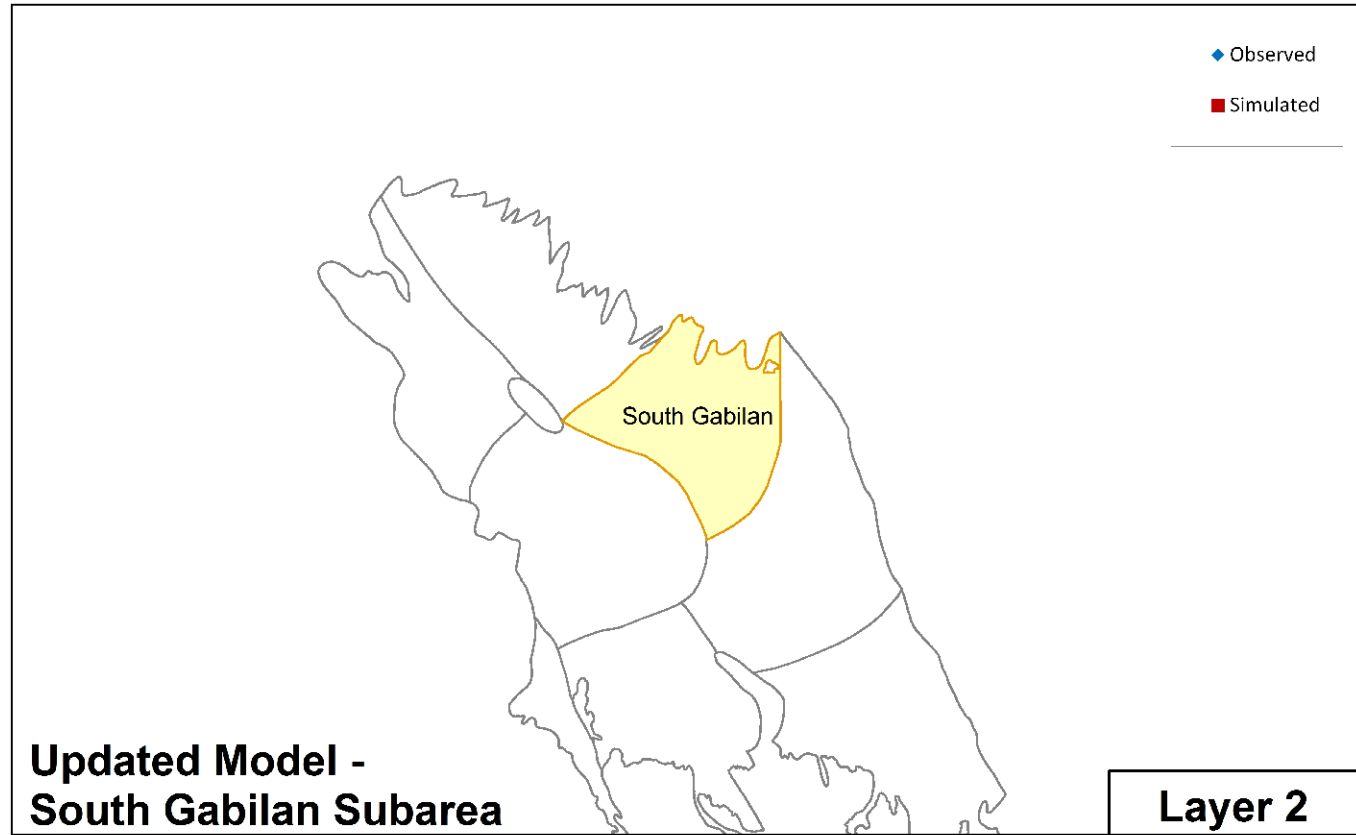
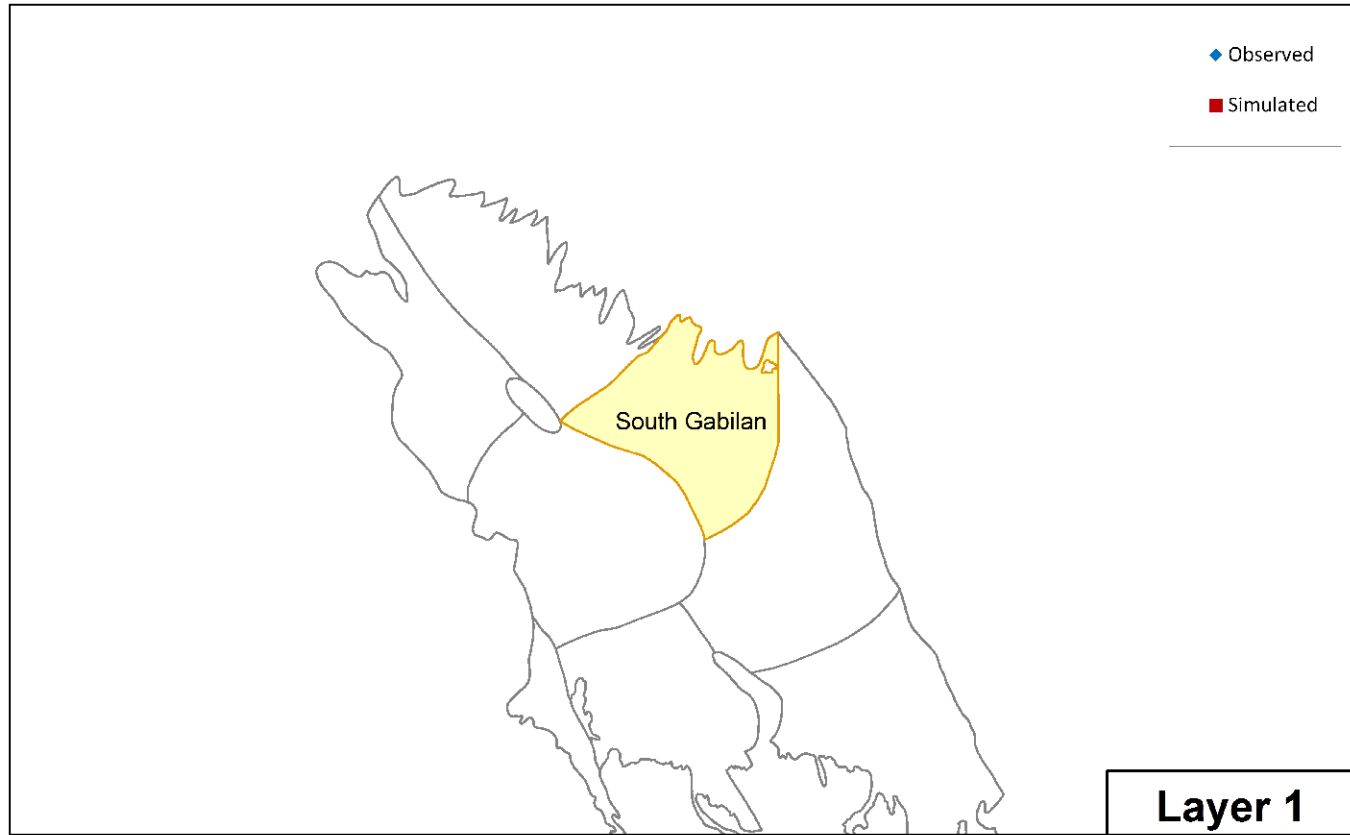


Path: T:\Projects\Paio Basin Model Update\GIS\Map\Final Model Report\Figure 78\_Updated Model Observed vs. Simulated Groundwater Elevations - Estrella Subarea.mxd

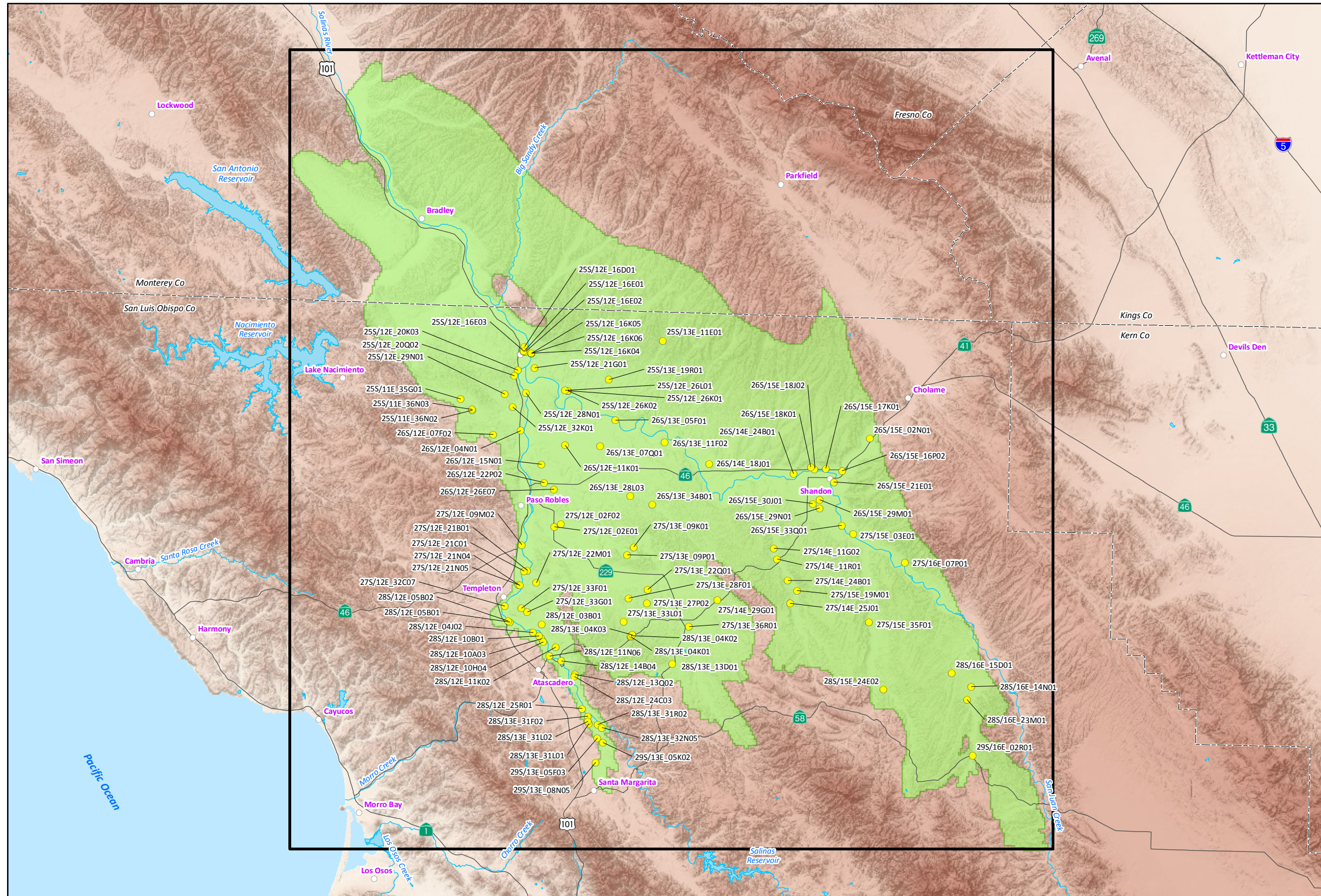








**GROUNDWATER FLOW  
MODEL CALIBRATION  
TARGET WELLS**



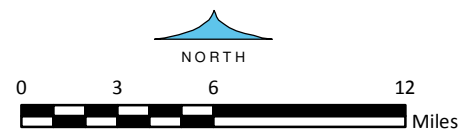
- EXPLANATION**
- Target Well Location
  - Paso Robles Groundwater Basin Model Domain
  - Paso Robles Groundwater Basin Model Active Area
  - County Boundary
- (Source: Fugro, ETIC Engineers and Cleath, 2005)

19-Dec-14

Prepared by: DWB. Map Projection: State Plane 1983, Zone V.

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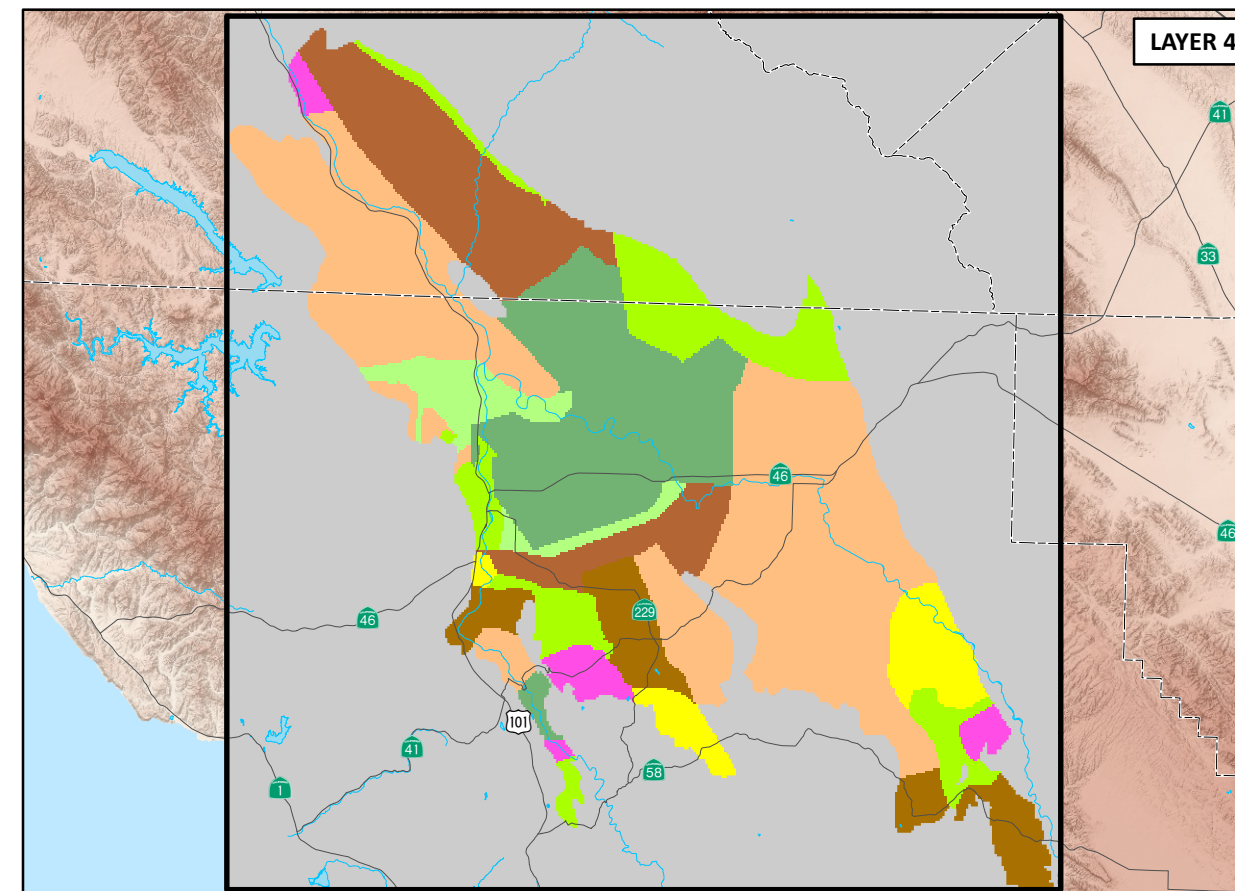
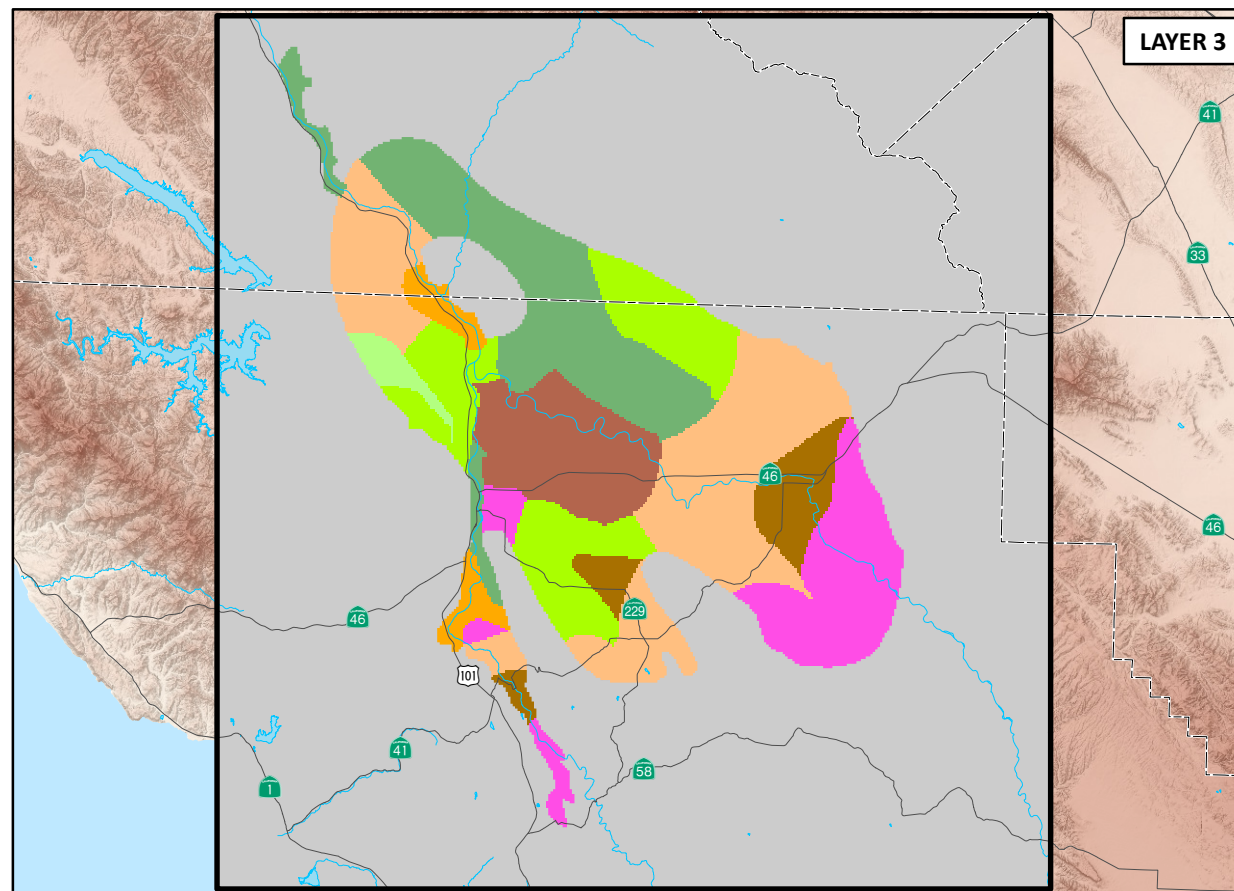
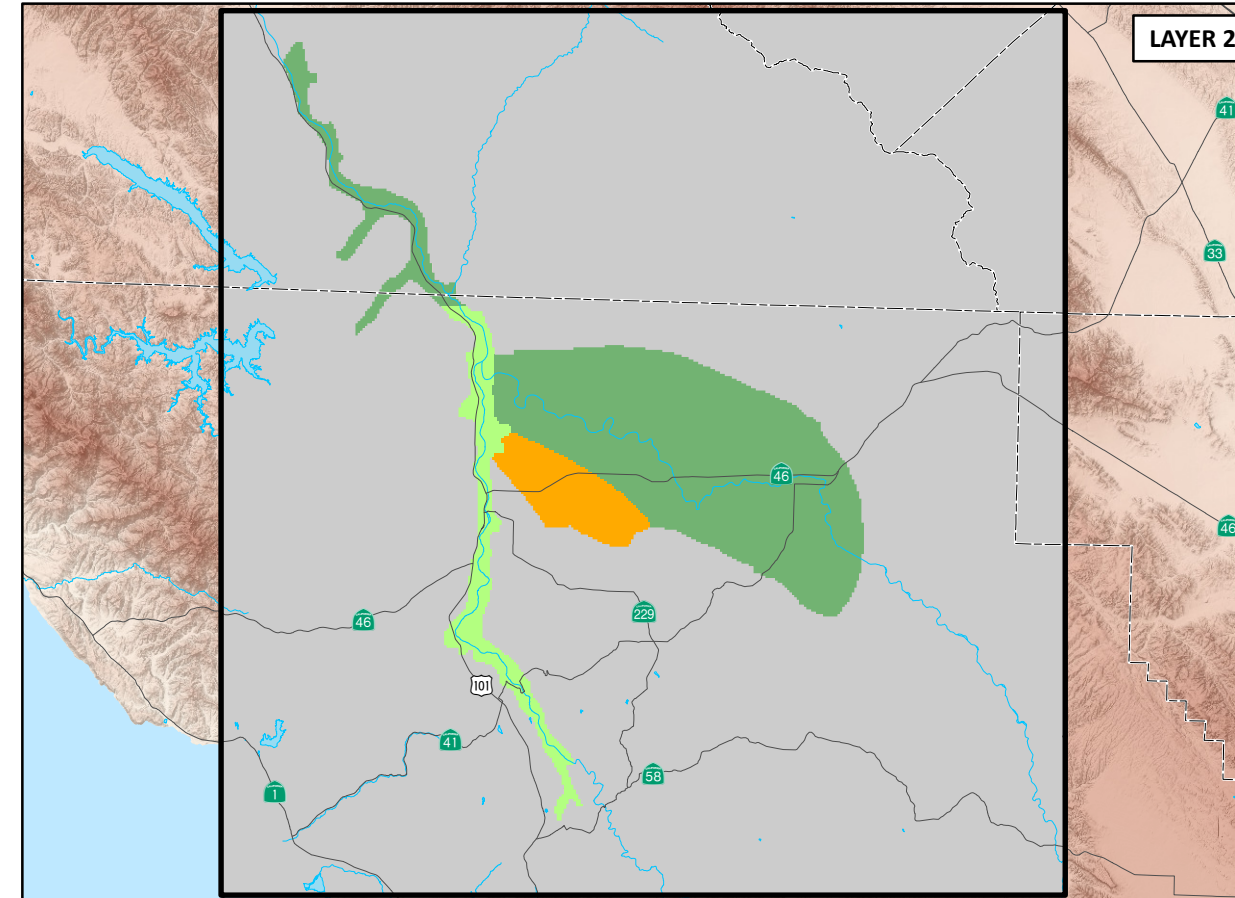
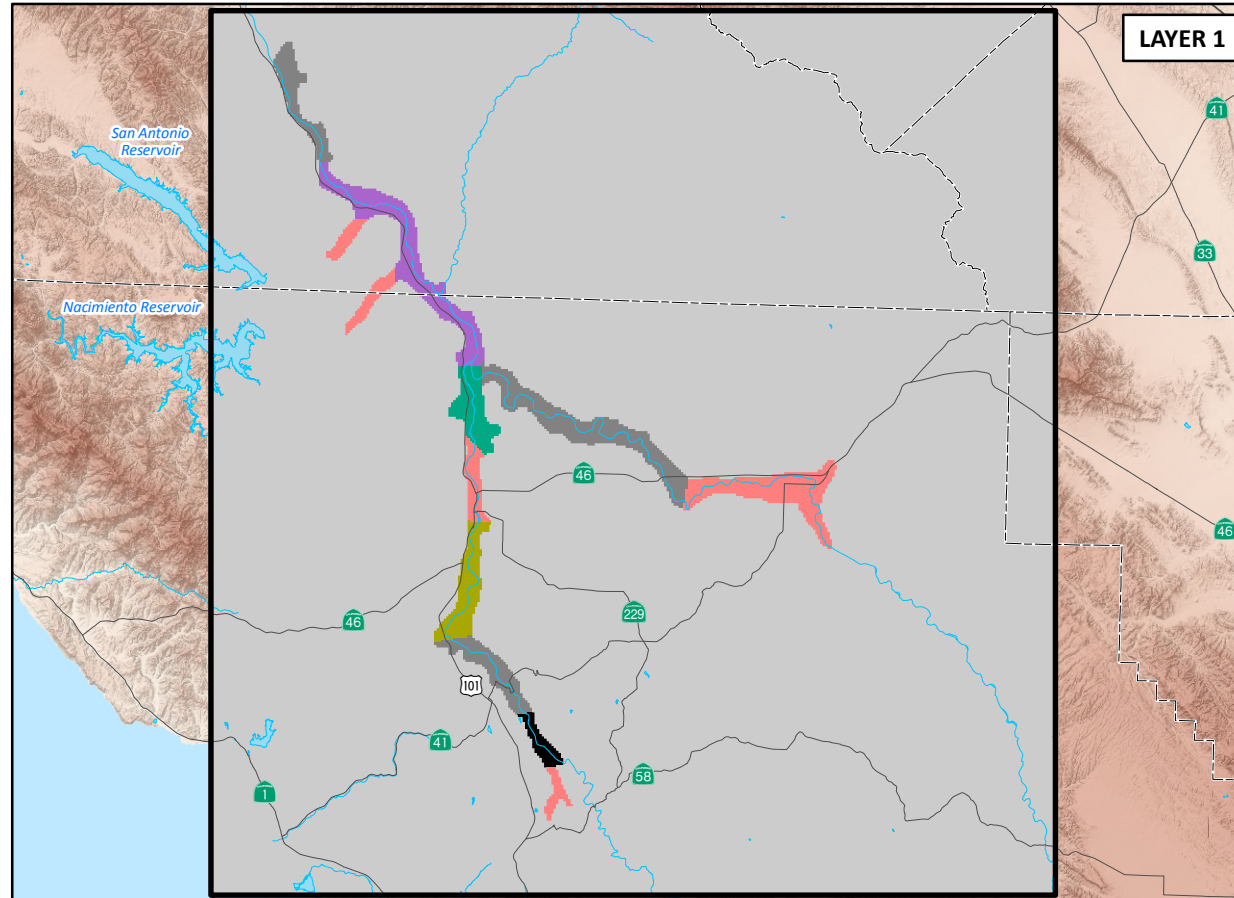
GIS\_proj/co\_slo\_paso\_robles\_model/6\_Fig\_82\_well\_locs\_12-14.mxd



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**Figure 82**



**HORIZONTAL  
HYDRAULIC CONDUCTIVITY FOR  
RECALIBRATED BASIN MODEL  
LAYERS 1 THROUGH 4**

**EXPLANATION**

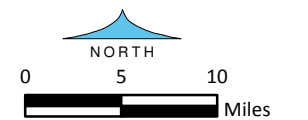
Hydraulic Conductivity (ft/day)

	<0.25		20 - 50
	0.25 - 0.5		50 - 100
	0.5 - 0.75		100 - 200
	0.75 - 1		200 - 300
	1 - 2		350
	2 - 5		450
	5 - 10		550
	10 - 20		

- Paso Robles Groundwater Basin Model Domain
- Paso Robles Groundwater Basin Model Inactive Area

(Source: Fugro, ETIC Engineers and Cleath, 2005)

----- County Boundary

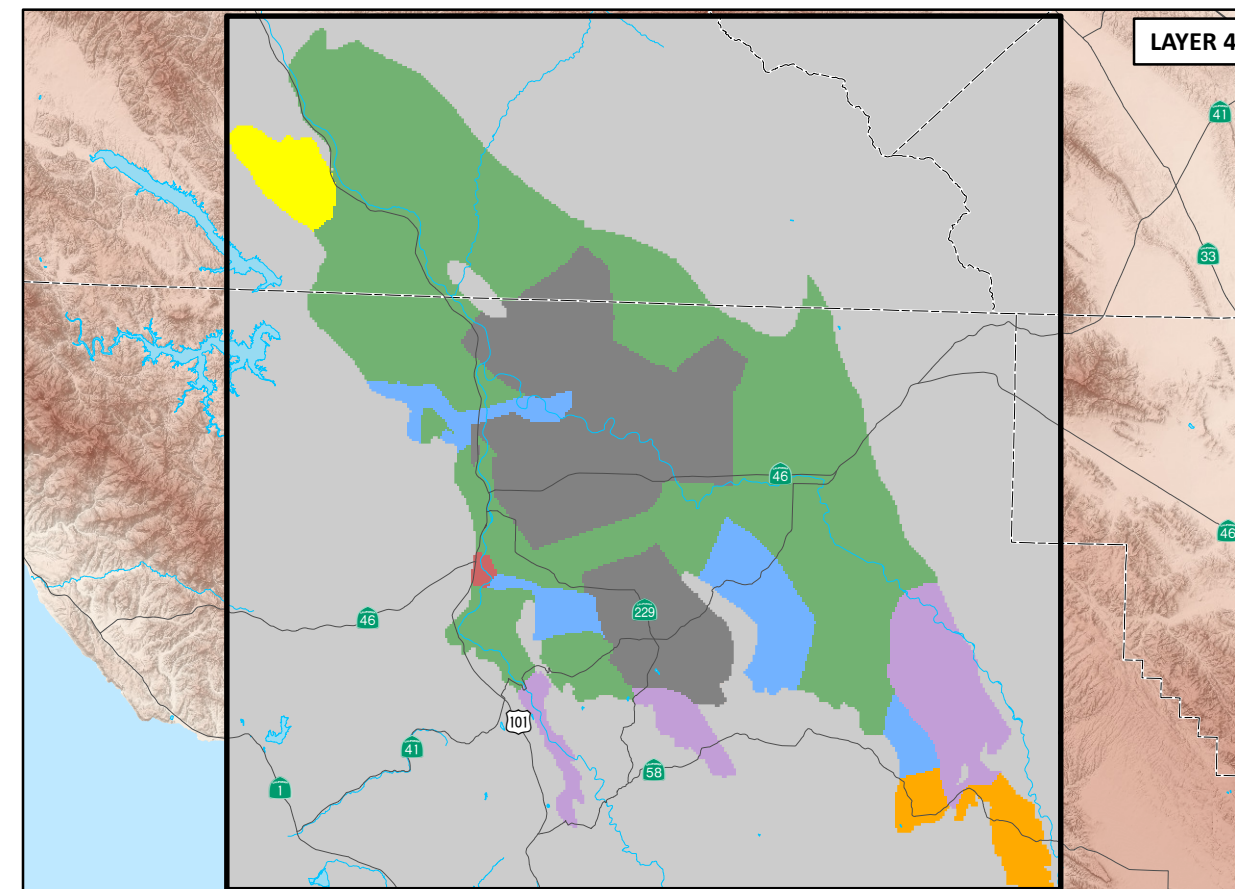
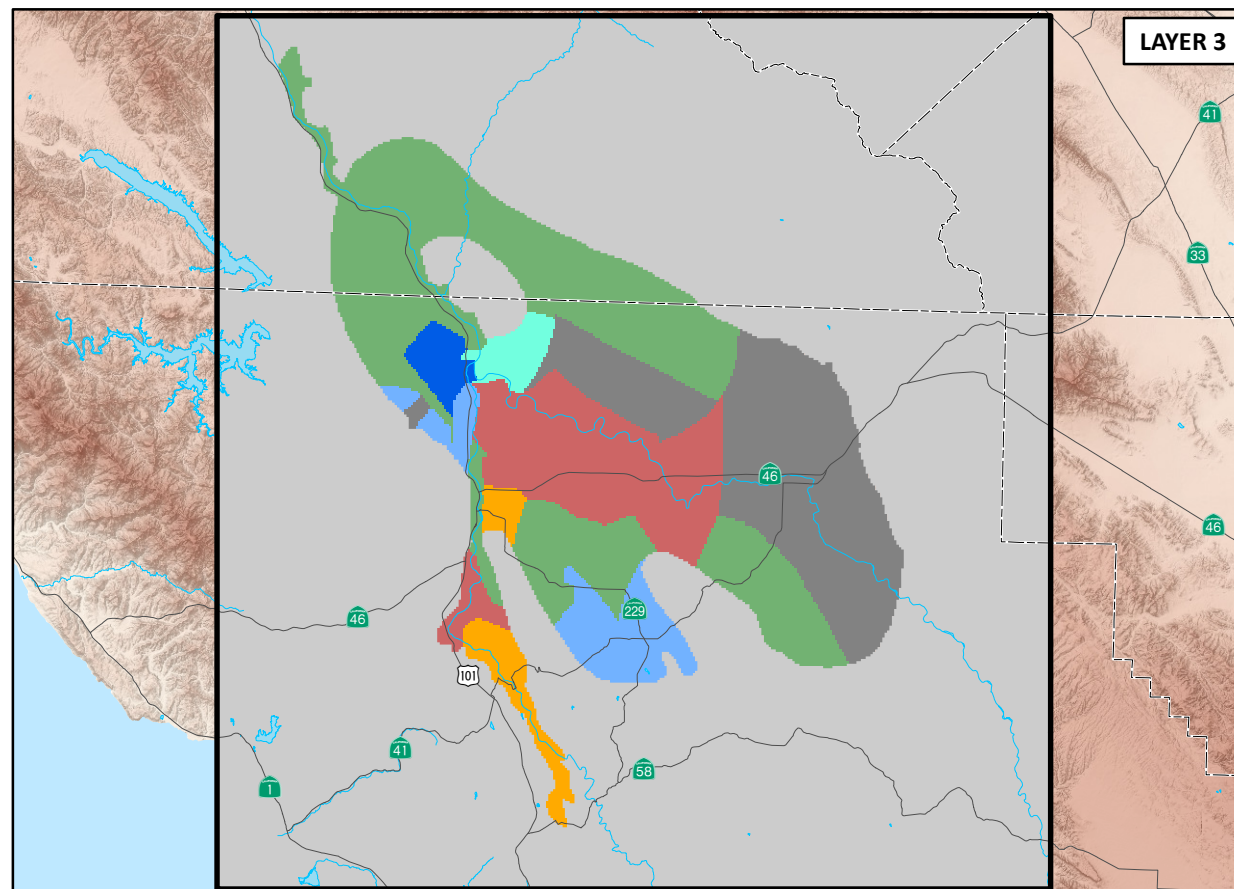
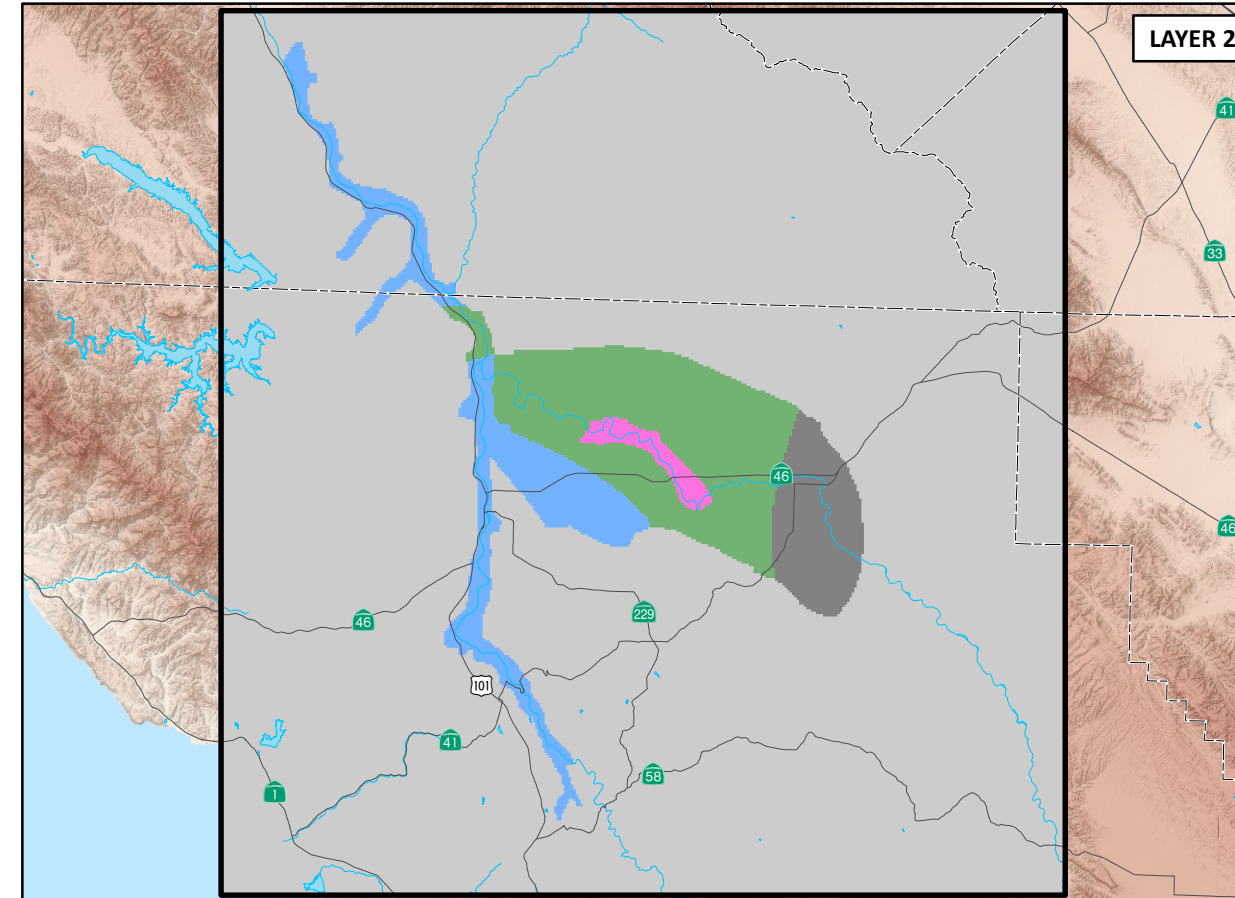
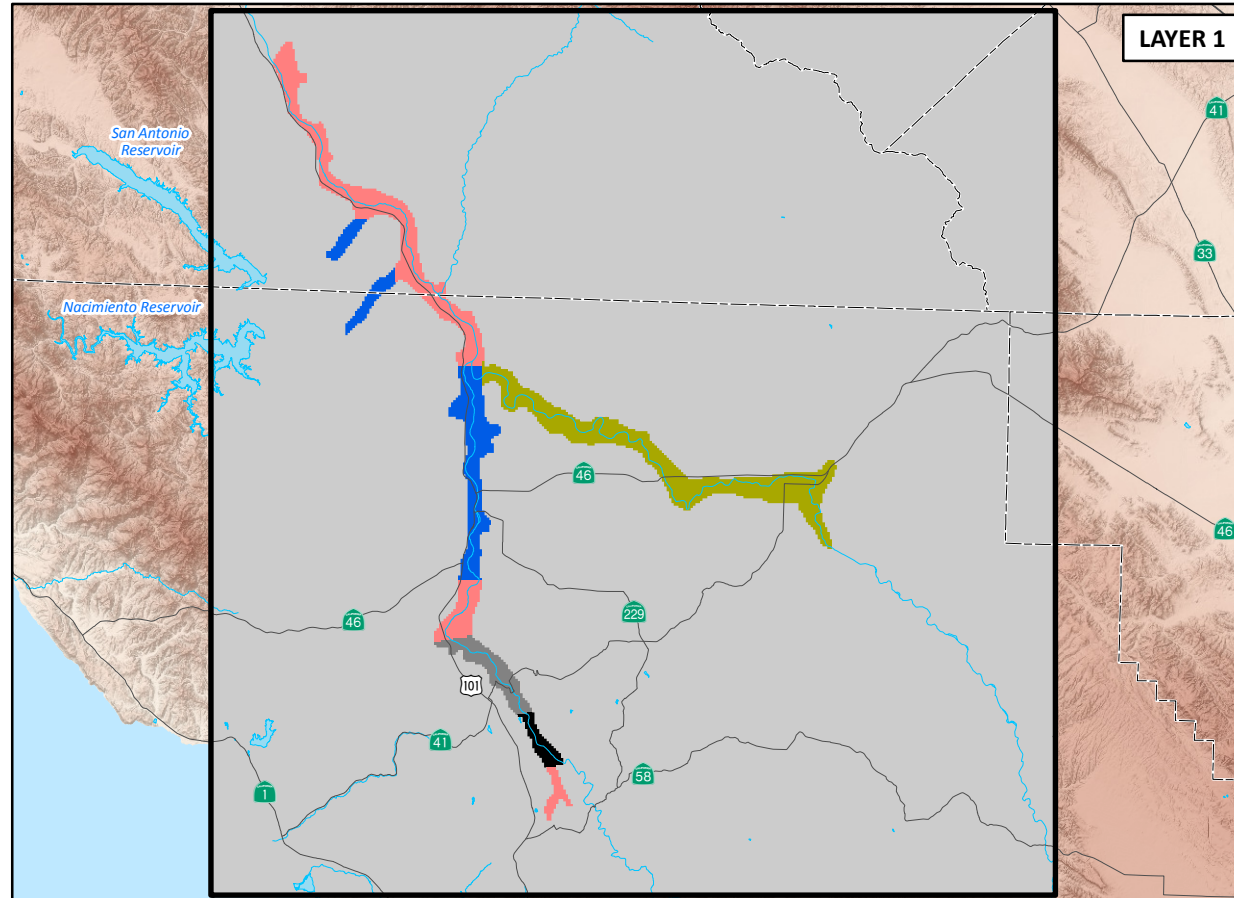


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SAN LUIS OBISPO COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

PASO ROBLES GROUNDWATER BASIN MODEL UPDATE



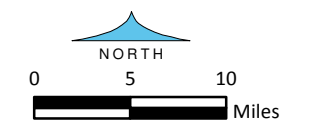
**VERTICAL HYDRAULIC CONDUCTIVITY FOR RECALIBRATED BASIN MODEL LAYERS 1 THROUGH 4**

**EXPLANATION**

Vertical Hydraulic Conductivity (ft/day)

	<0.002		0.15
	0.002 - 0.01		0.2
	0.01 - 0.02		0.4
	0.02 - 0.03		0.5
	0.03 - 0.1		0.8
	0.125		1

- Paso Robles Groundwater Basin Model Domain
- Paso Robles Groundwater Basin Model Inactive Area
- (Source: Fugro, ETIC Engineers and Cleath, 2005)
- County Boundary

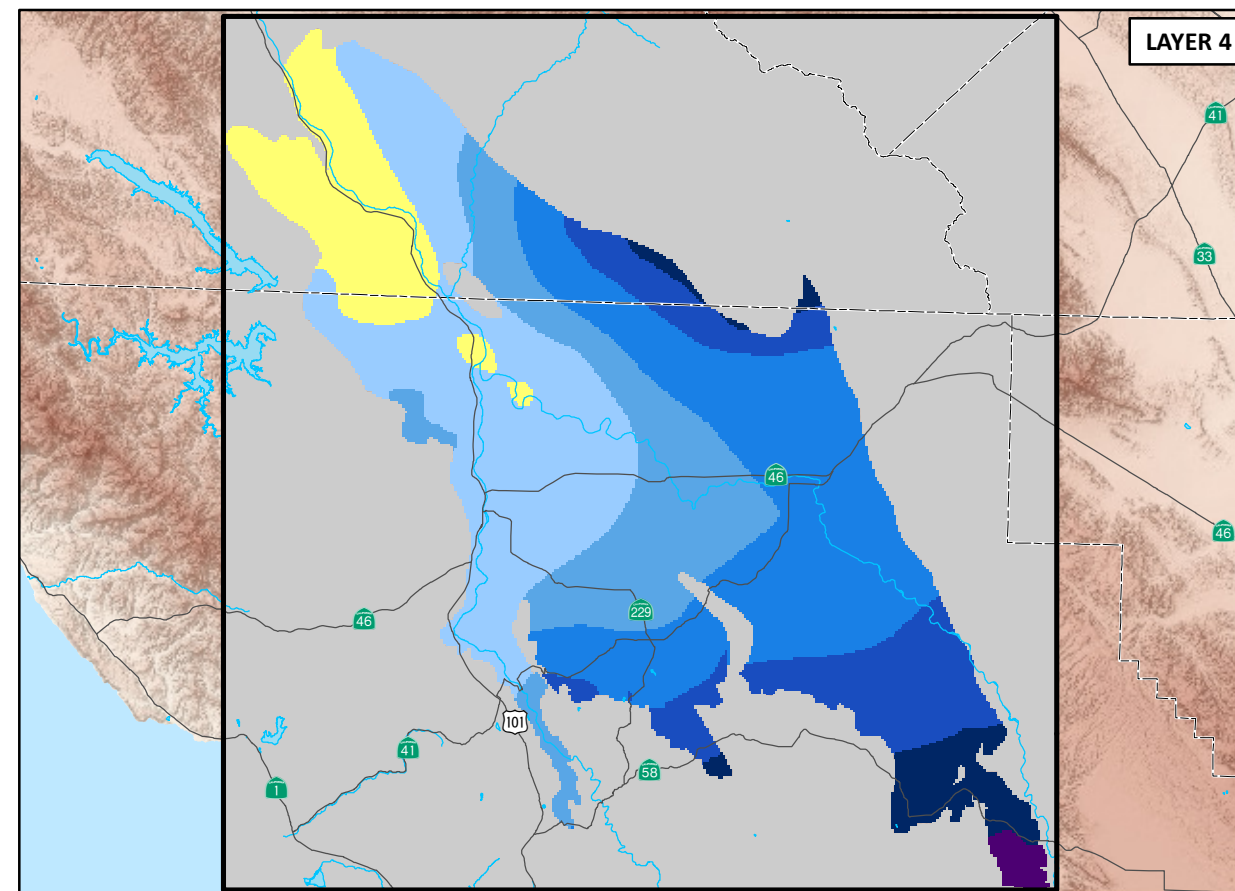
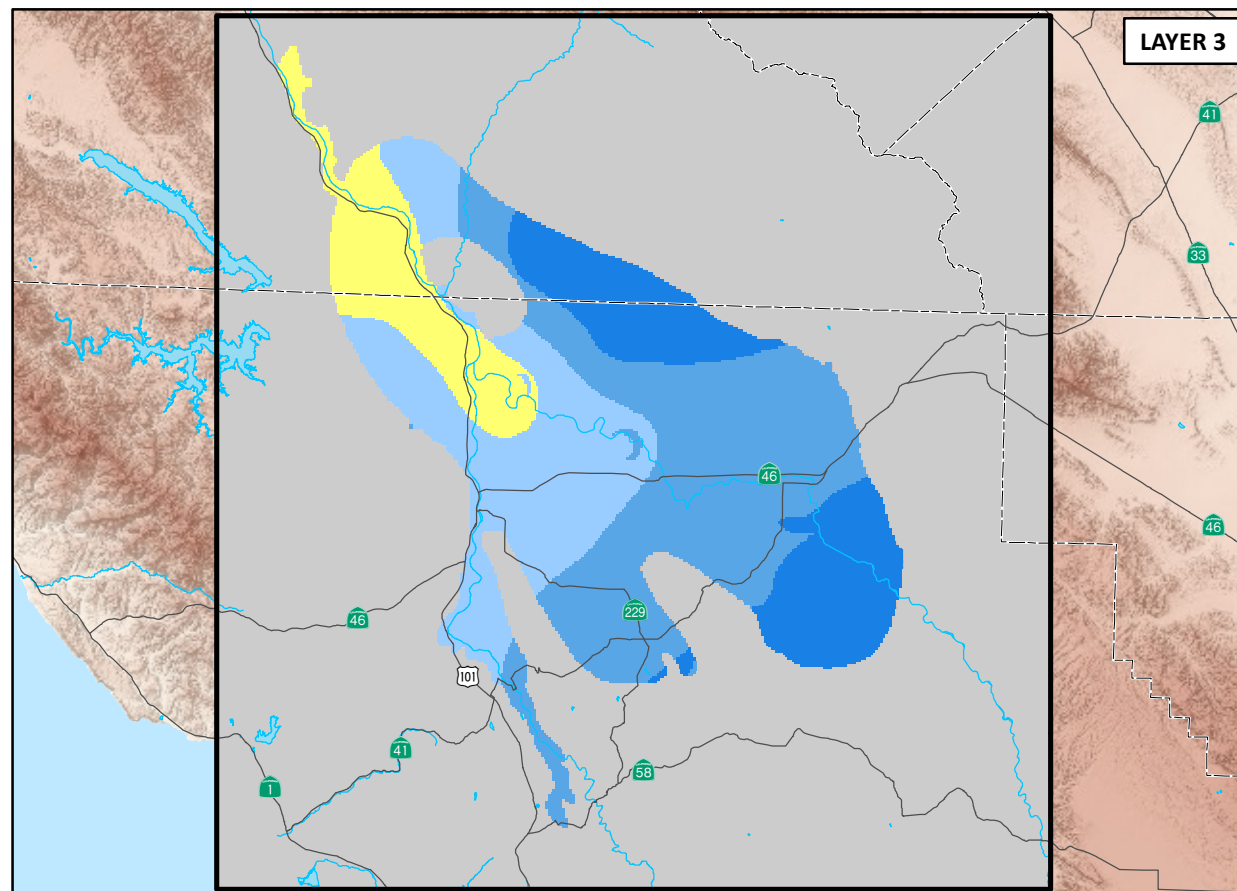
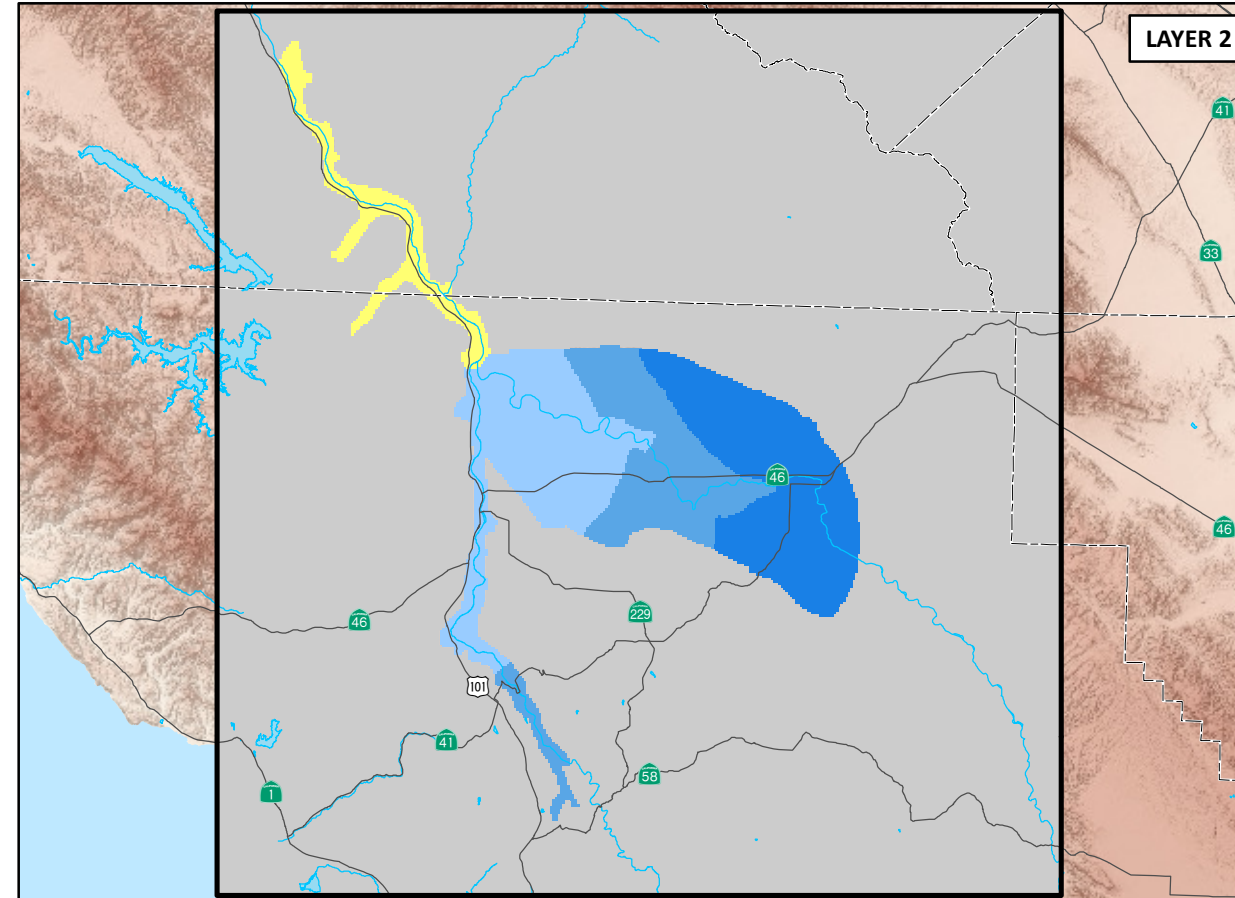
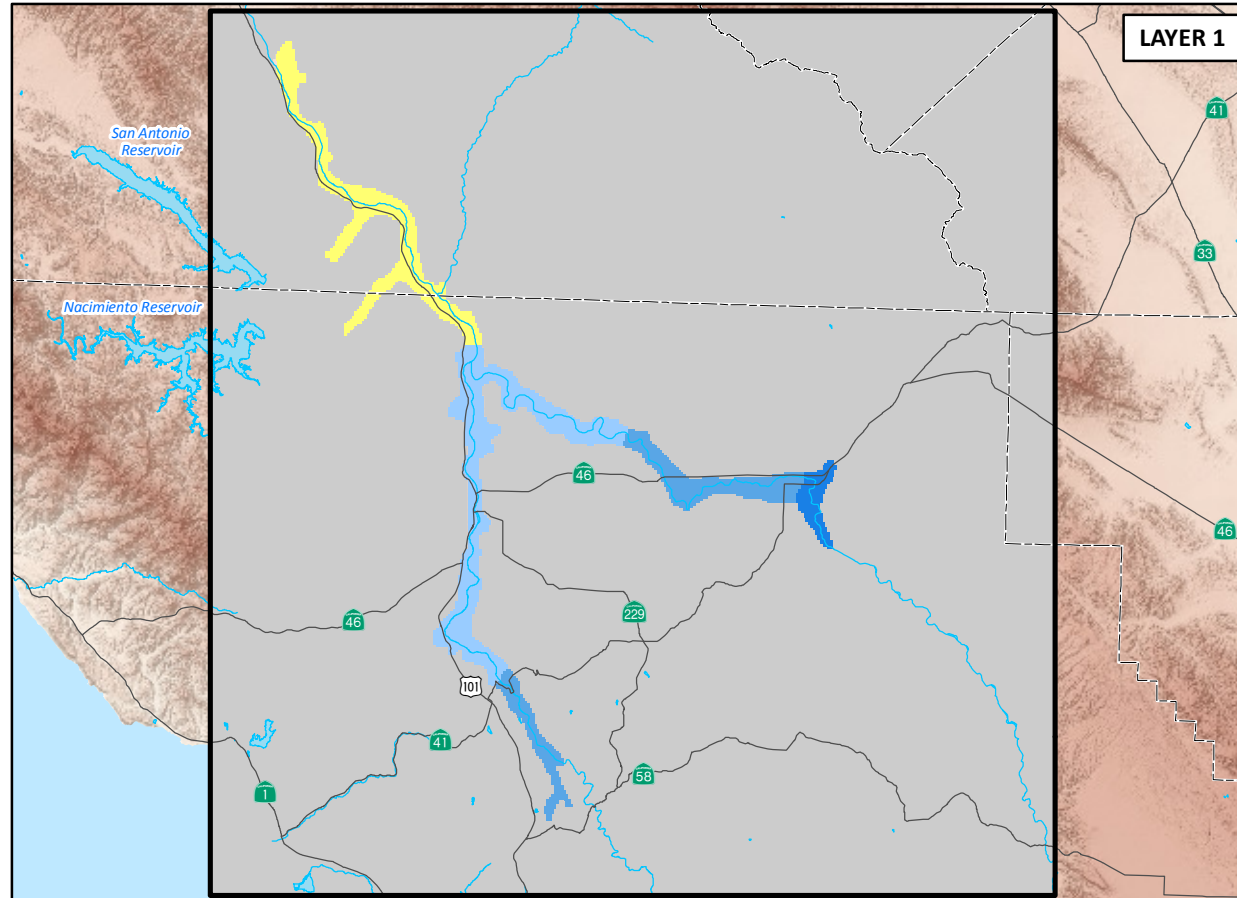


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PASO ROBLES GROUNDWATER BASIN MODEL UPDATE



REVISED  
INITIAL GROUNDWATER  
ELEVATIONS  
(OCTOBER 1980)

EXPLANATION

Initial Groundwater Elevation  
(ft amsl)

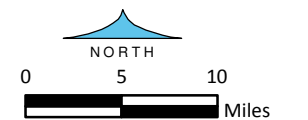
- 400 - 600
- 600 - 800
- 800 - 1,000
- 1,000 - 1,200
- 1,200 - 1,400
- 1,400 - 1,600
- 1,600 - 1,625

Paso Robles Groundwater Basin Model Domain

Paso Robles Groundwater Basin Model Inactive Area

(Source: Fugro, ETIC Engineers and Cleath, 2005)

----- County Boundary



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### Annual Recharge from Deep Percolation of Streambed Seepage Water Years 1981-2011

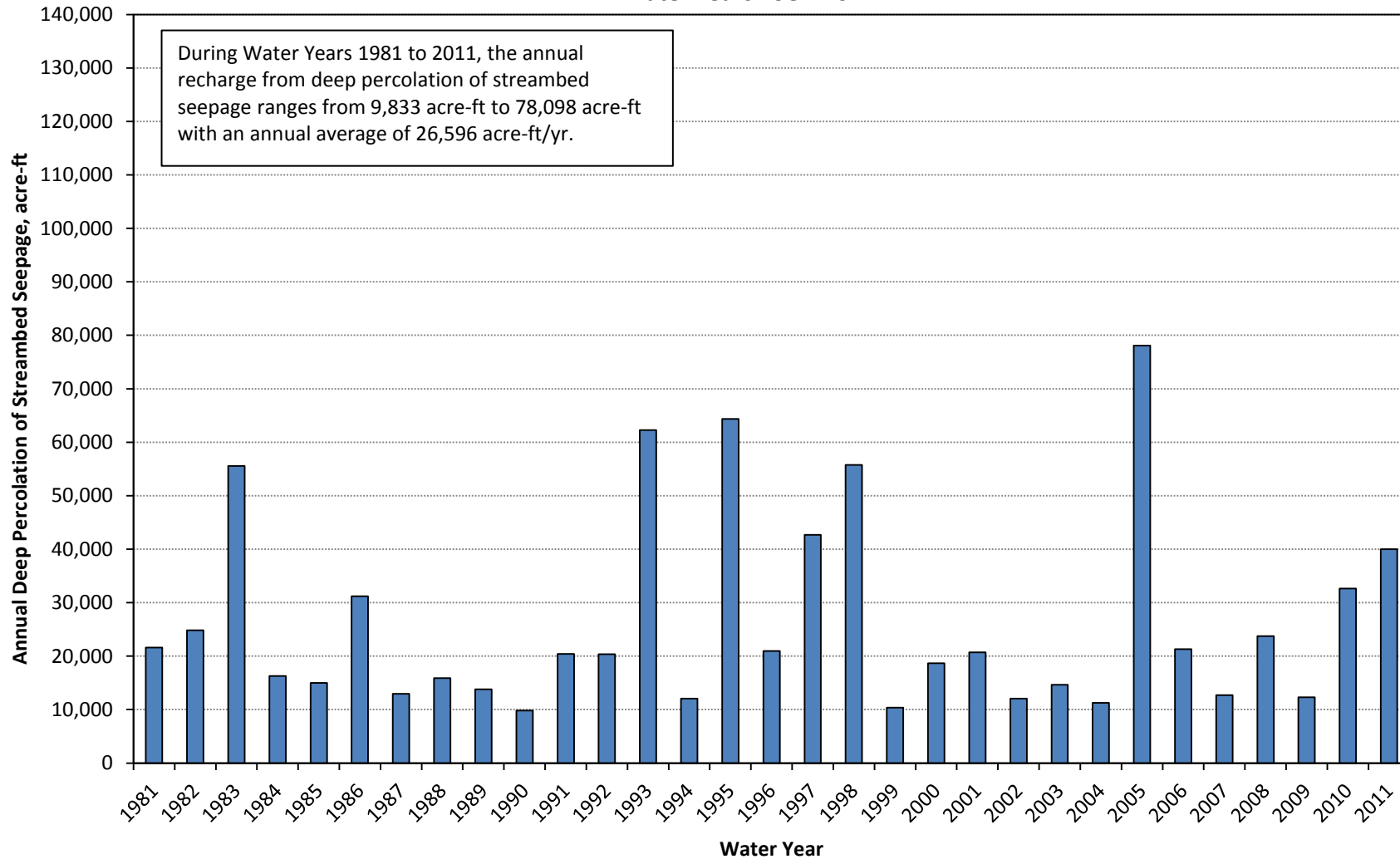


Figure 86

### Annual Recharge from Deep Percolation of Direct Precipitation and Return Flow from Applied Water Water Years 1981-2011

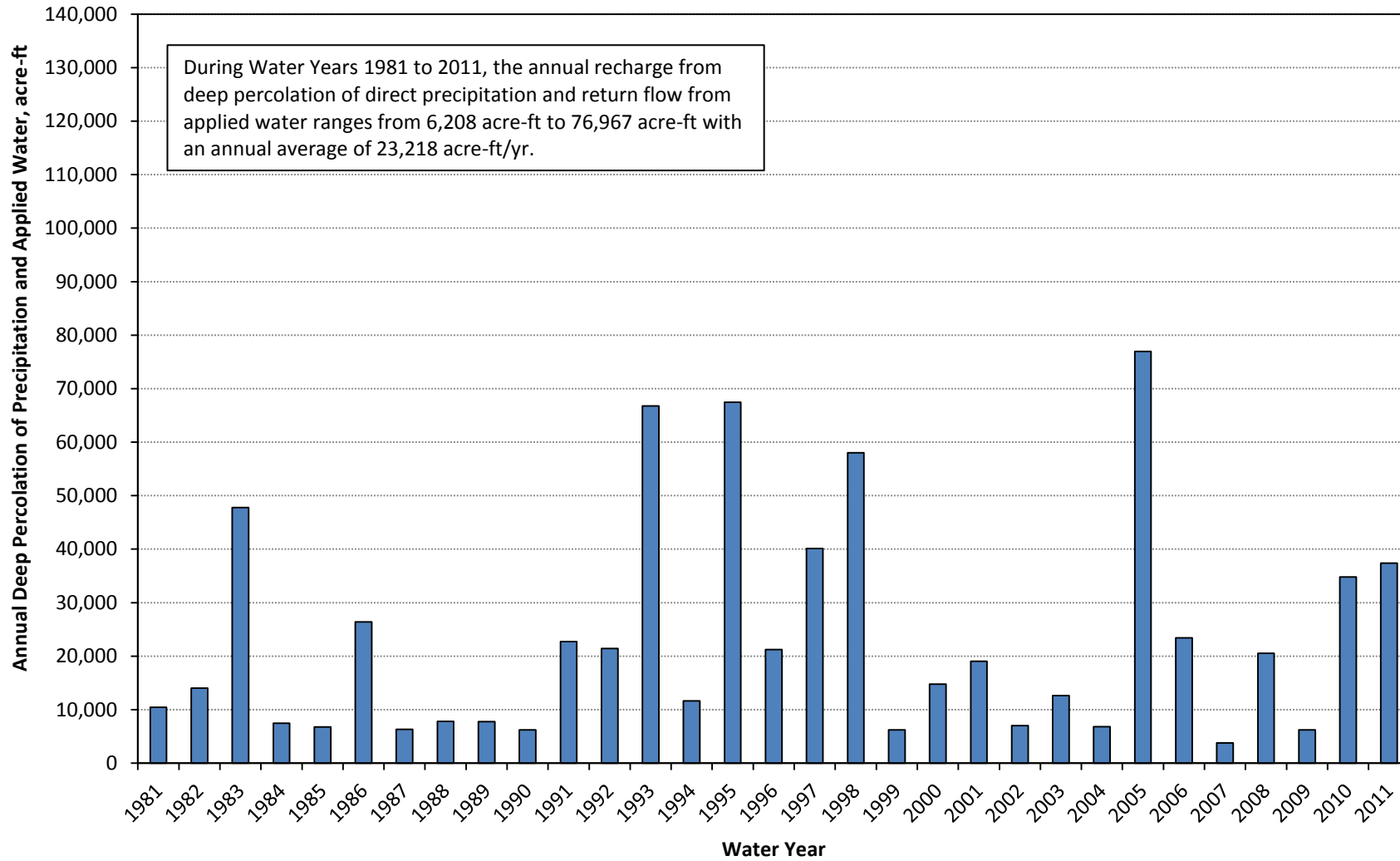


Figure 87

### Annual Recharge from Subsurface Inflow through Basin Boundary Water Years 1981-2011

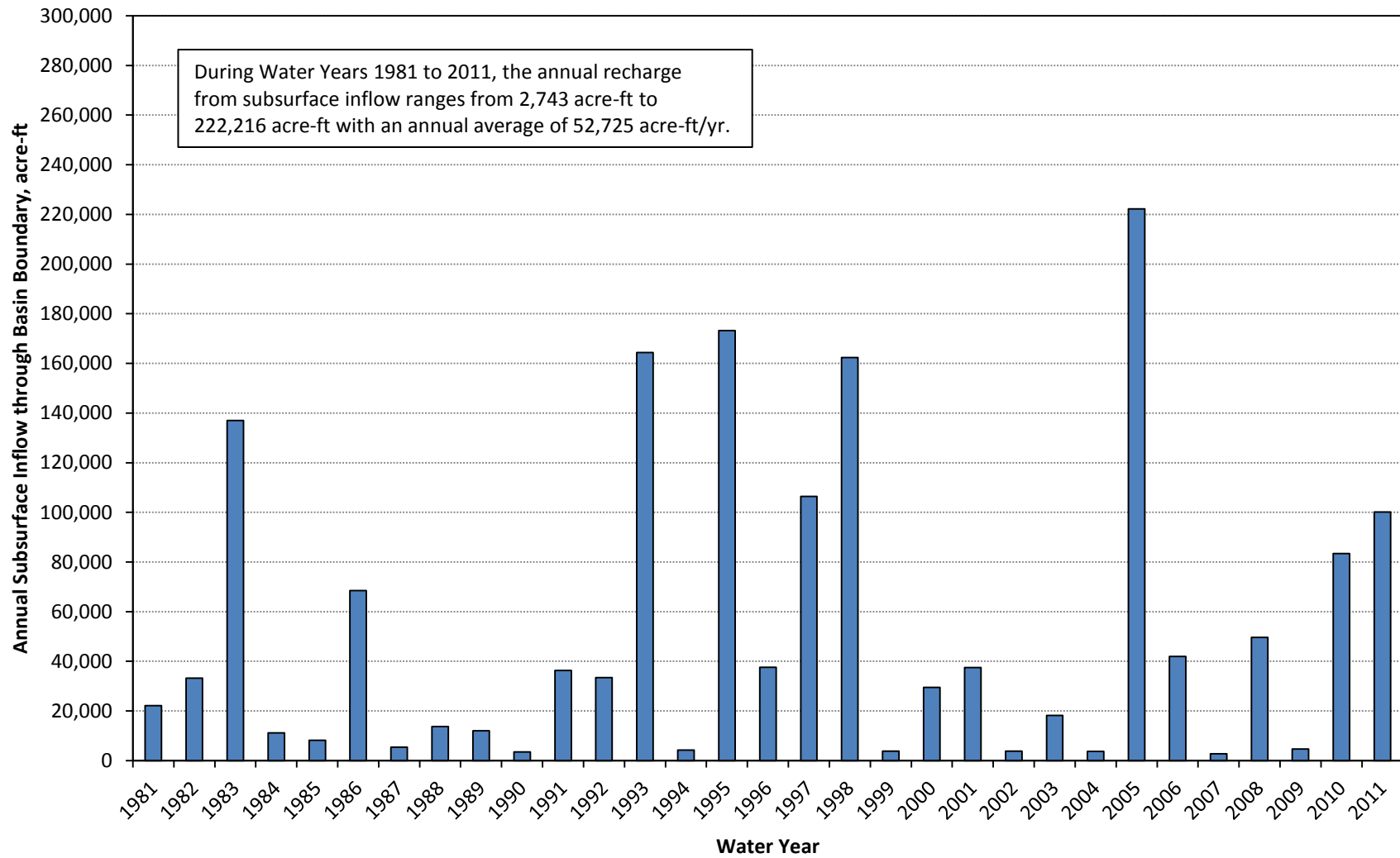


Figure 88

### Annual Discharge from Subsurface Outflow through Basin Boundary Water Years 1981-2011

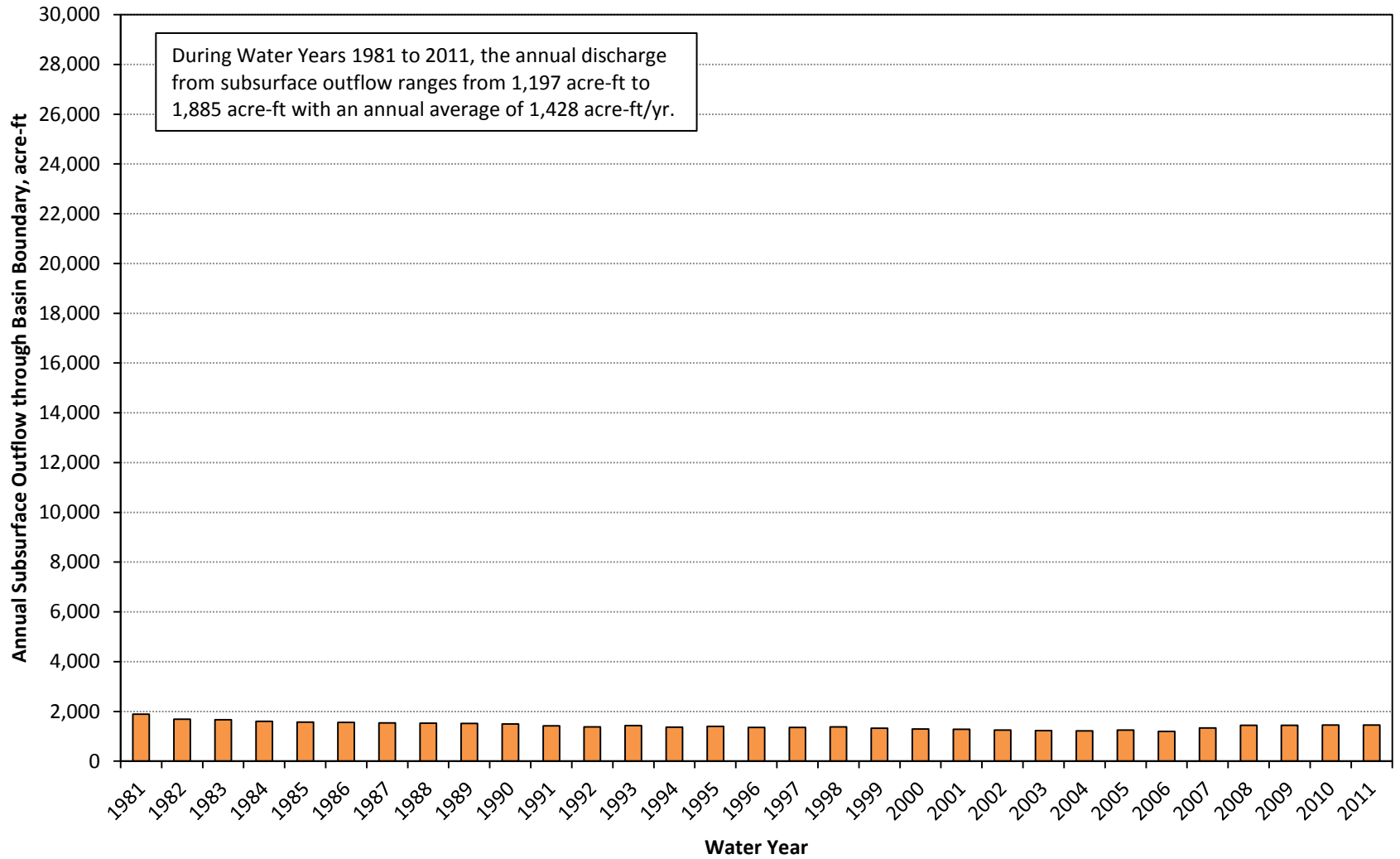


Figure 89

### Annual Groundwater Discharge to Rivers Water Years 1981-2011

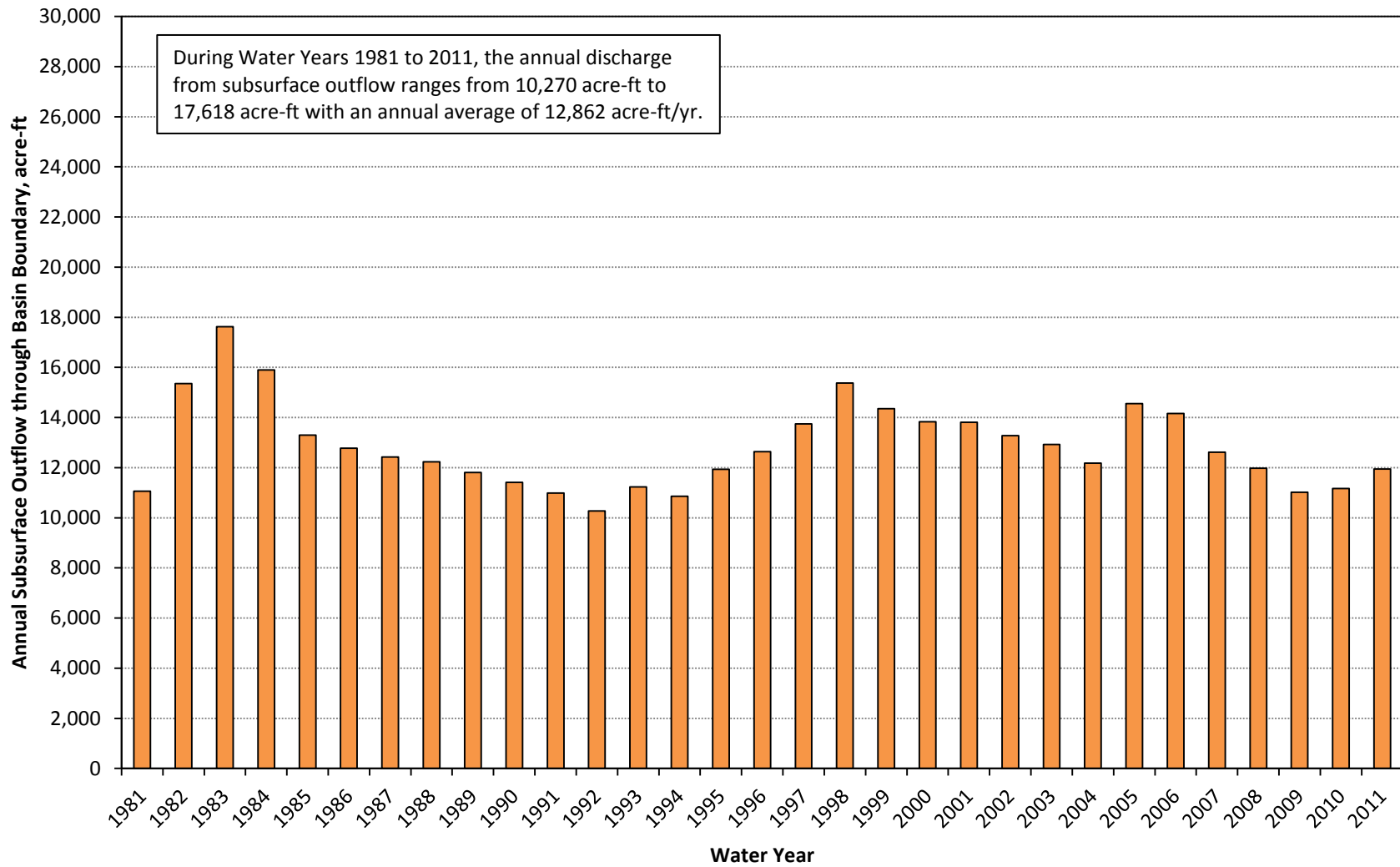


Figure 90

### Annual Inflow for Paso Robles Groundwater Basin Water Years 1981-2011

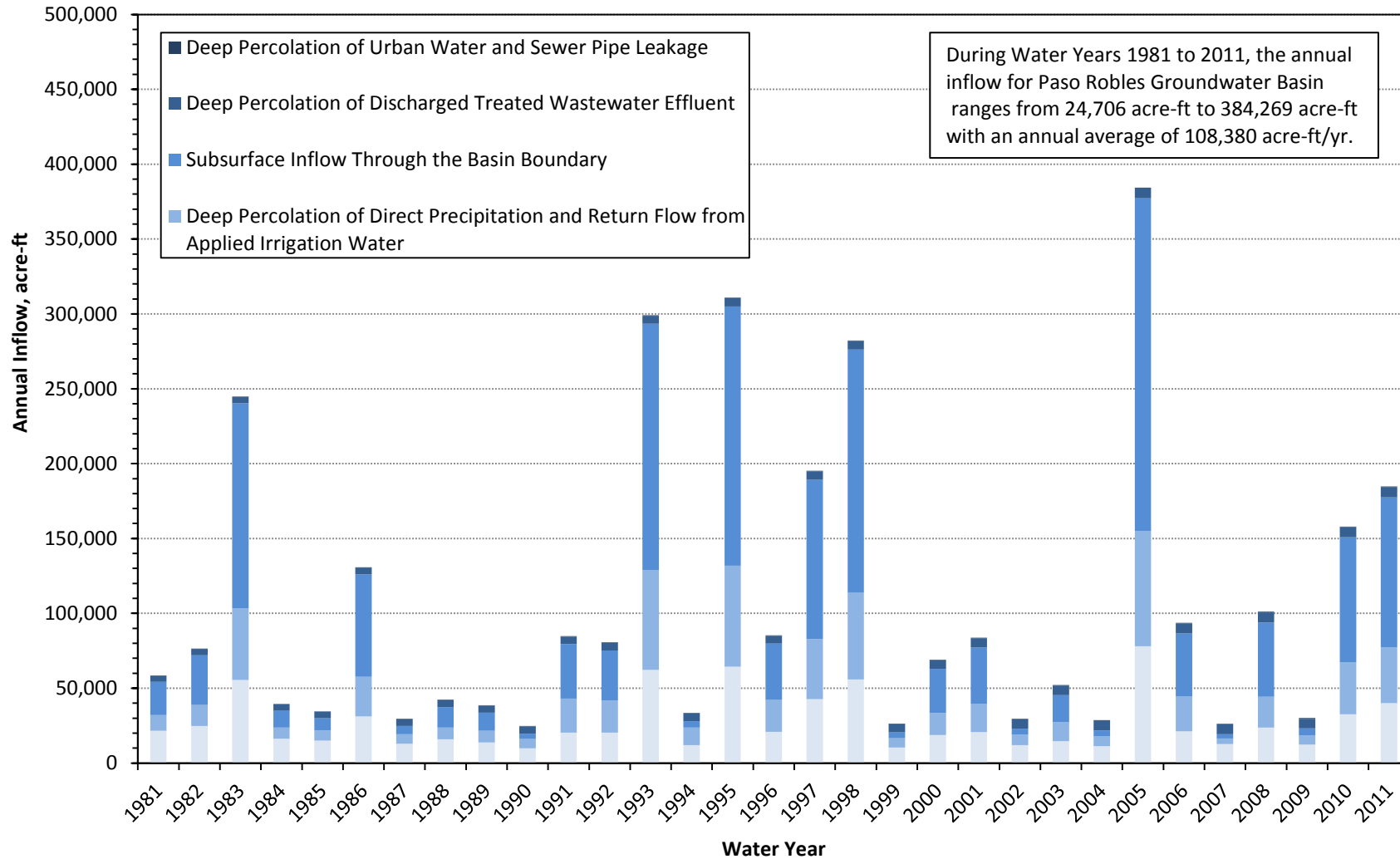


Figure 91

### Annual Outflow for Paso Robles Groundwater Basin Water Years 1981-2011

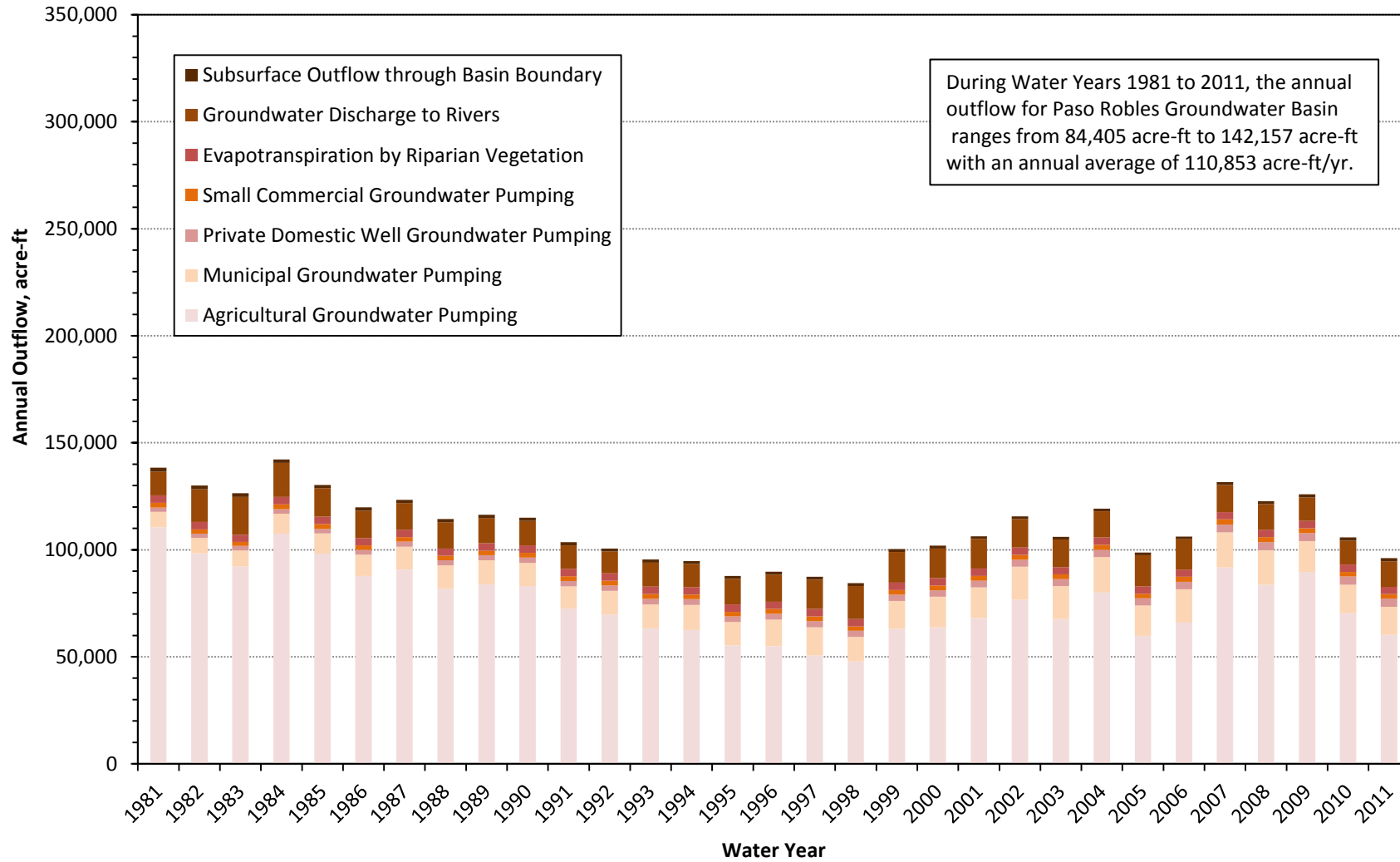
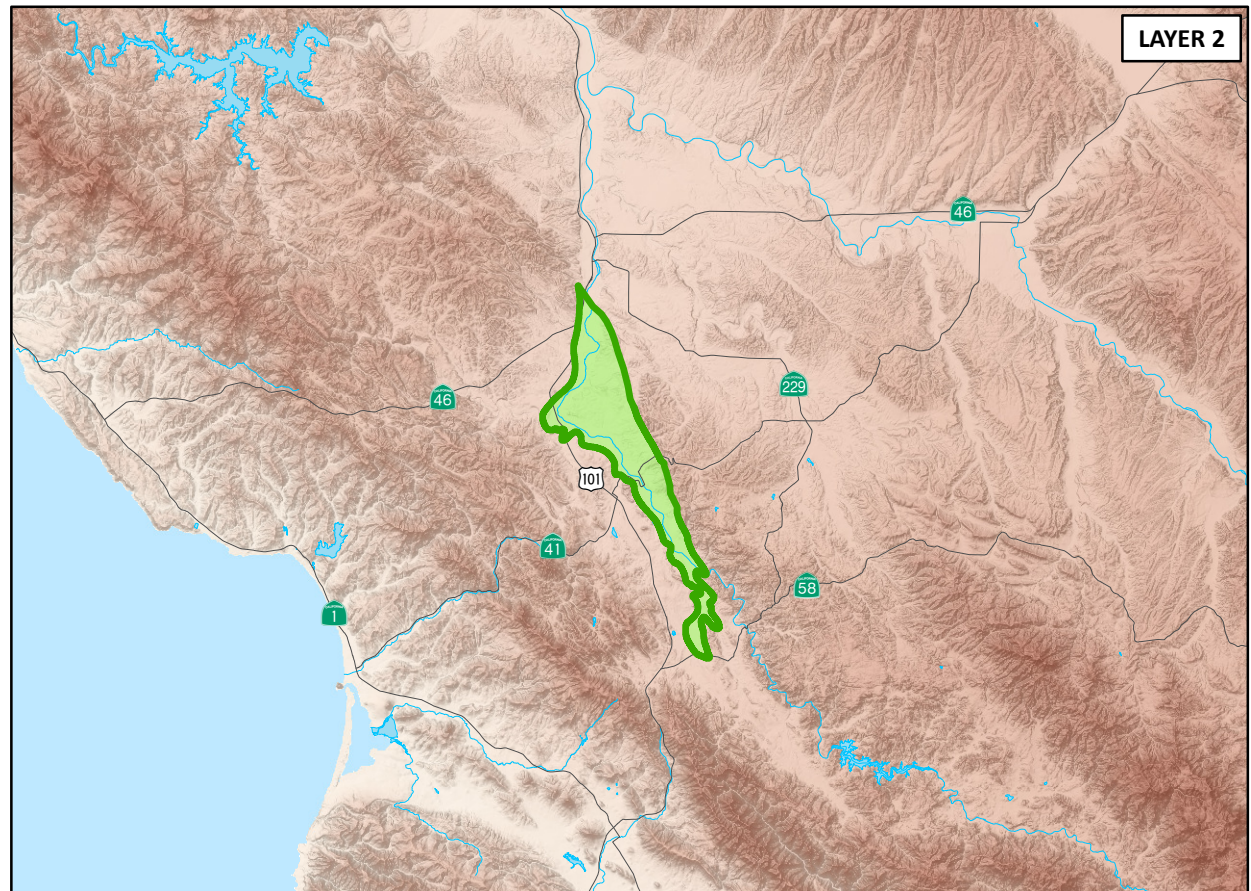
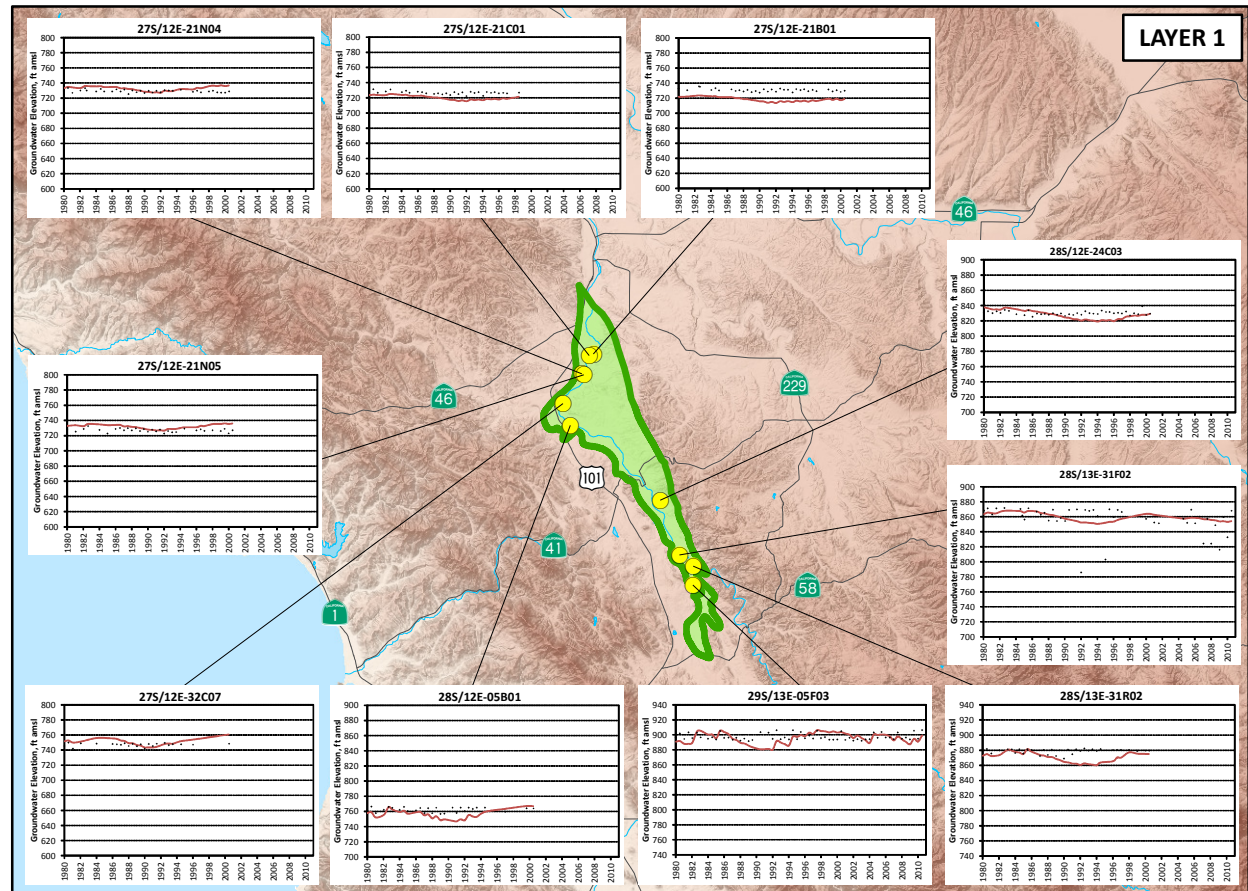


Figure 92

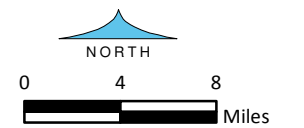
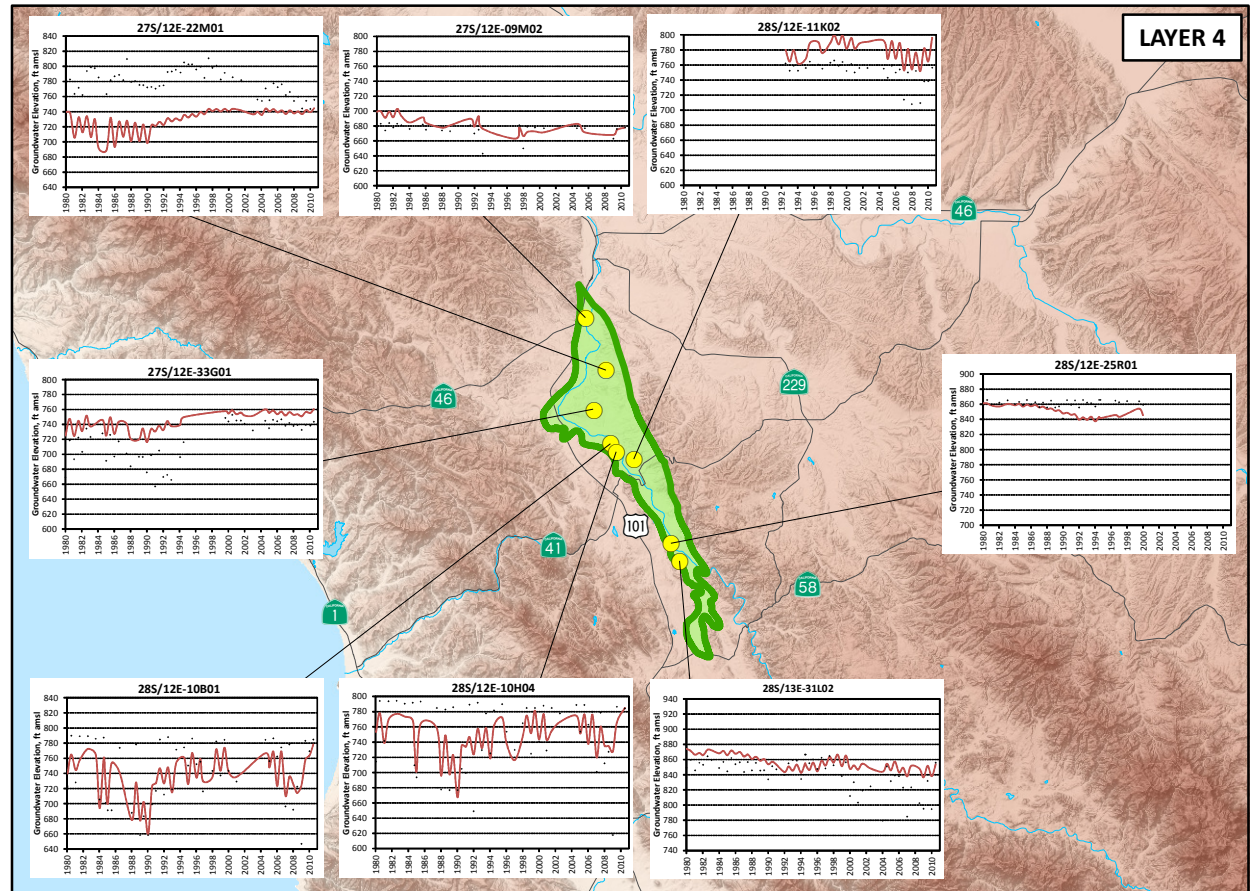
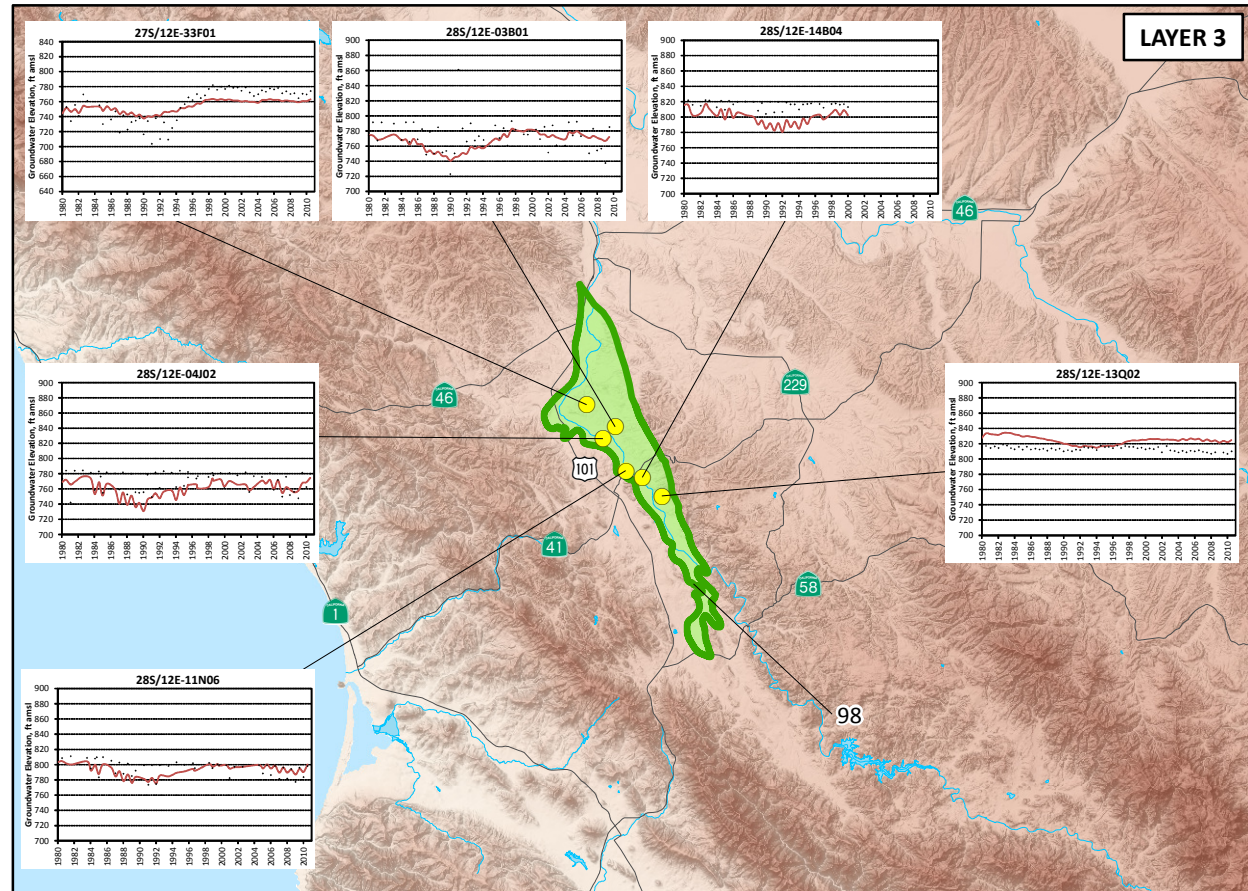
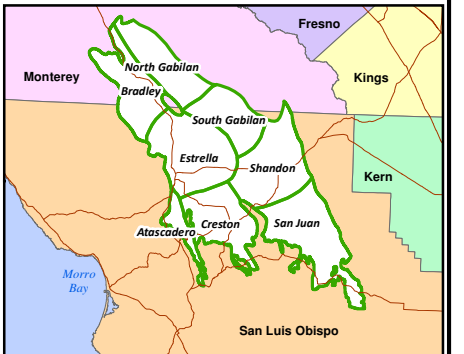


**HYDROGRAPHS FOR  
RECALIBRATED BASIN MODEL  
ATASCADERO SUB-BASIN**

**EXPLANATION**

- Well Designation Within Subbasin
- Observed
- Model Generated
- Paso Robles Groundwater Basin with Sub-Area (Source: Fugro and Cleath, 2002)
- County Boundary

Regional Sub-Areas Inset



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