FOX CANYON GMA BASIN MANAGEMENT OBJECTIVES REPORT CARD
OXNARD PLAIN FOREBAY
Updated January 2012

Goal: Protect water quality at public drinking water wells (nitrate and TDS) and irrigation suitability (TDS). (Note TDS = total dissolved solids)

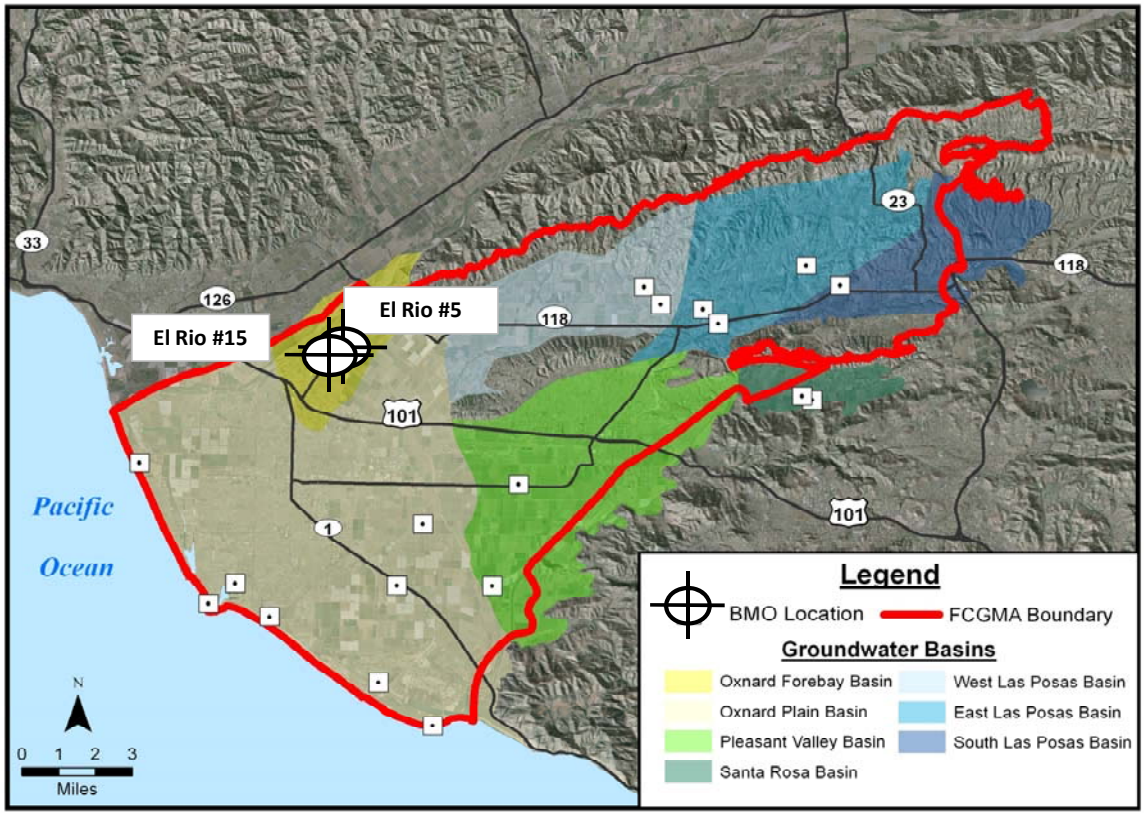
BMOs: Nitrate Concentration: 22.5 mg/L-NO_3 (50% of State of California MCL)

TDS Concentration: 1,200 mg/L (LARWQCB Basin Plan Objective)

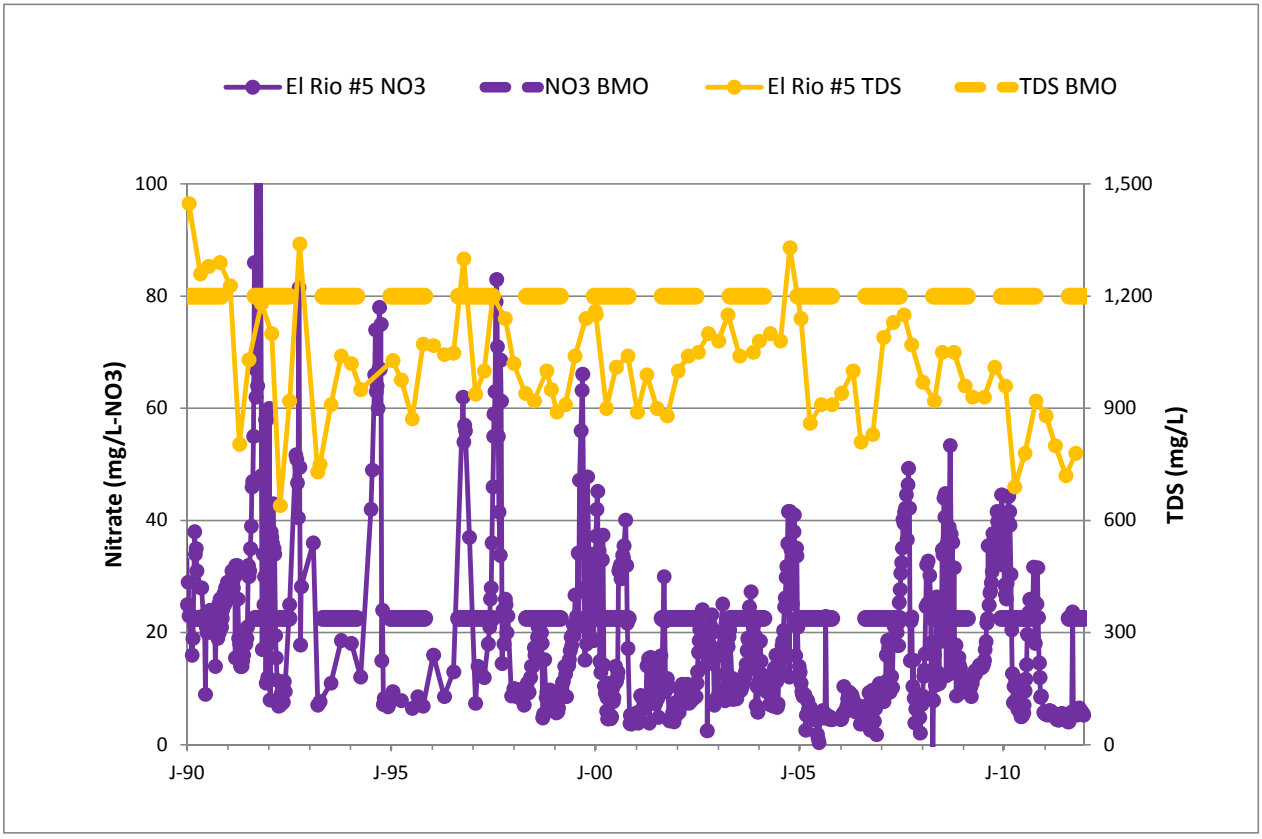
Status Summary: Average nitrate and TDS concentrations were well below the BMOs in 2011. Short term nitrate exceedances are managed by blending with other water sources. Increasing water levels during the last two years have contributed to declining nitrate and TDS concentrations. TDS concentrations are now near their lowest point in two decades.

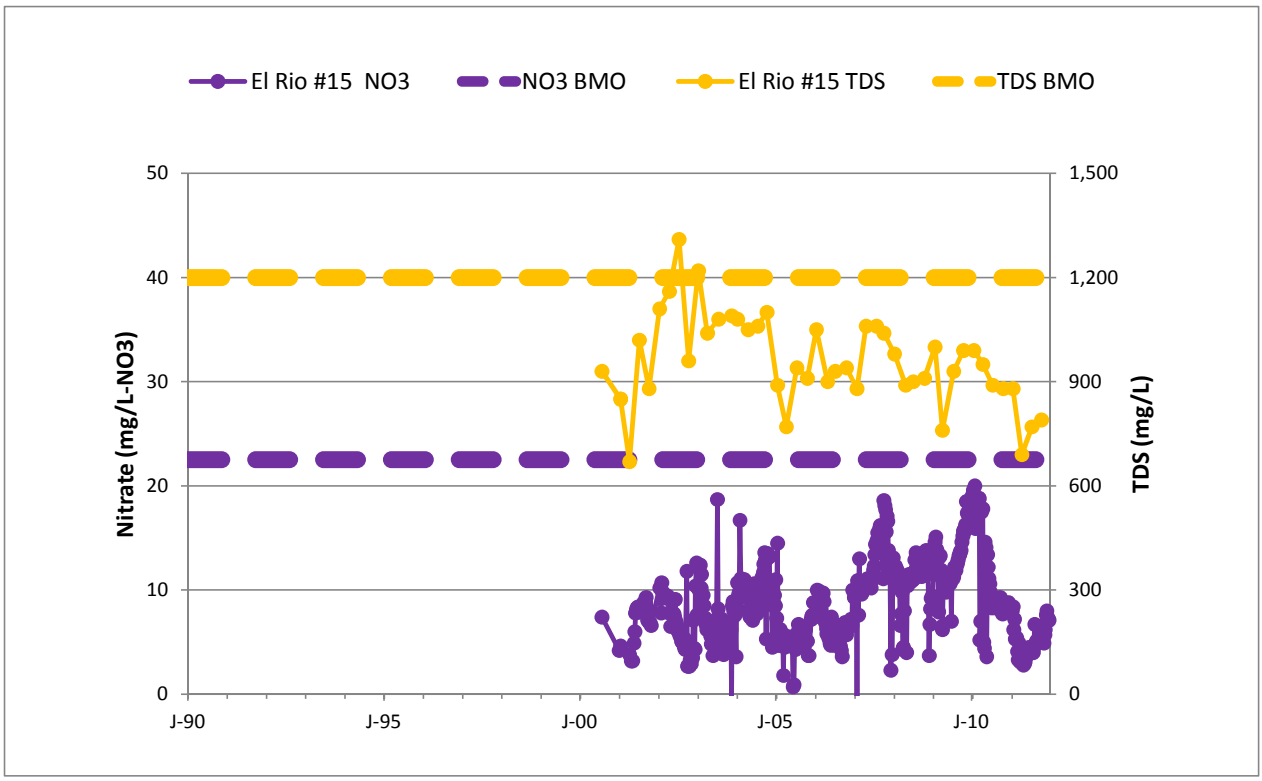
Status Summary Table

State Well Number (name)	Depth (ft)	Nitrate (mg/L)		TDS (mg/L)		5-yr Trend	
		BMO	2011 Ave	BMO	2011 Ave	Nitrate	TDS
02N22W23B02S (El Rio #5)	135-277	22.5	6	1,200	795	↓	↓
02N22W23C05S (El Rio #15)	140-310	22.5	5	1,200	783	↓	↓



FOX CANYON GMA BASIN MANAGEMENT OBJECTIVES REPORT CARD
OXNARD PLAIN FOREBAY
Updated January 2012





FOX CANYON GMA BASIN MANAGEMENT OBJECTIVES REPORT CARD
OXNARD PLAIN - UPPER AQUIFER SYSTEM
Updated January 2012

Goal: Prevent saline intrusion in the Oxnard and Mugu Aquifers. Primary source is seawater inflow via aquifer outcrops in submarine canyons near Port Hueneme and Pt. Mugu.

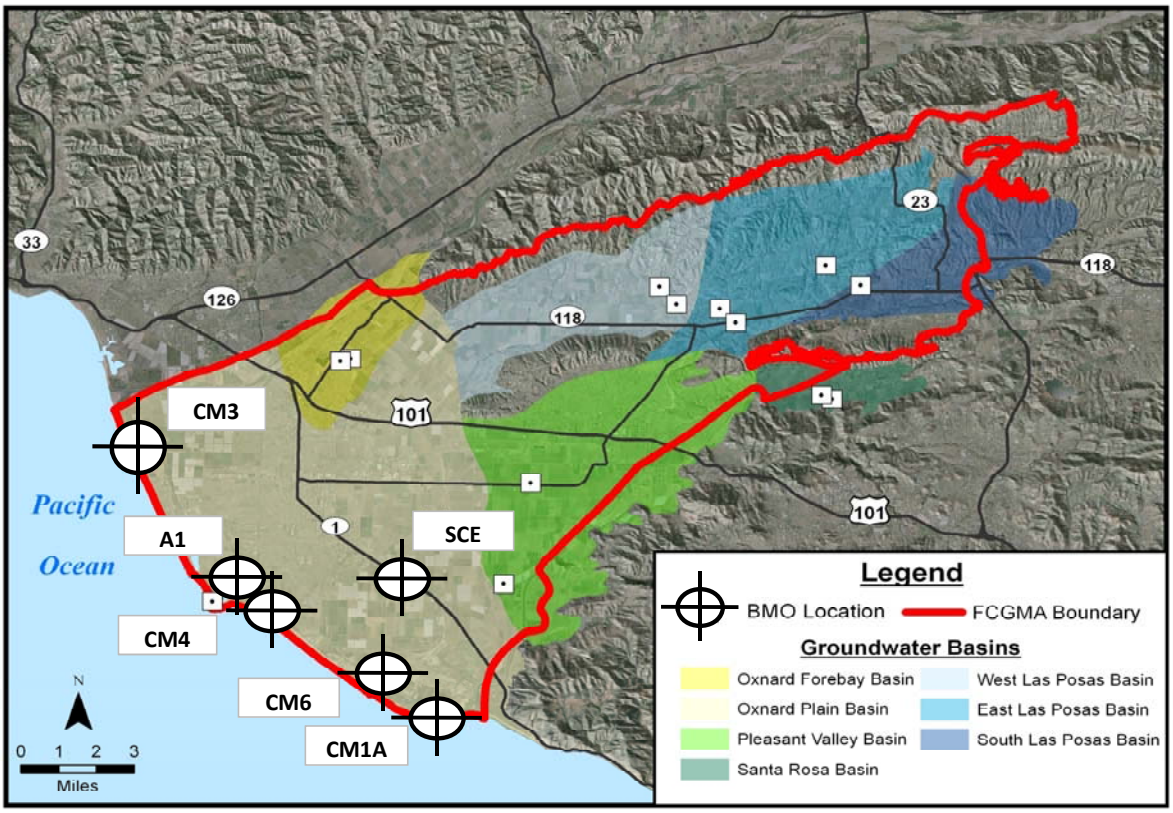
BMOs: Water Levels: Average groundwater elevations suffient to maintain slight seaward groundwater gradient. Elevation varies with location.

Chloride Concentration: 150 mg/L Chloride (LARWQCB Basin Plan Objective).

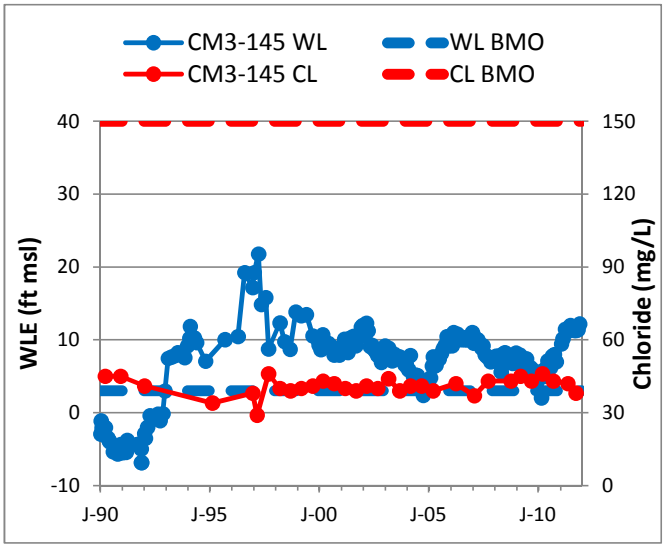
Status Summary: Water level BMOs were met at all locations except near Pt. Mugu in 2011. Water levels rose roughly 10 feet during the past two years, reversing a decling trend that began in 2007. Consistent with past results, chloride BMOs were not met near Port Hueneme and Pt. Mugu (these are areas of documented saline intrusion).

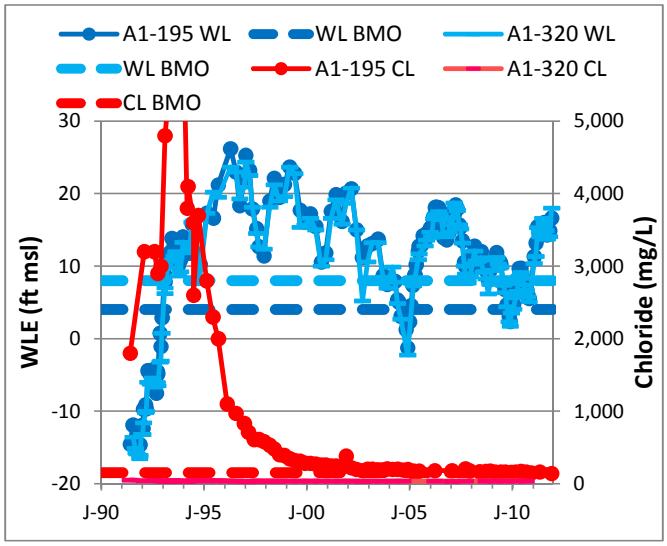
Status Summary Table

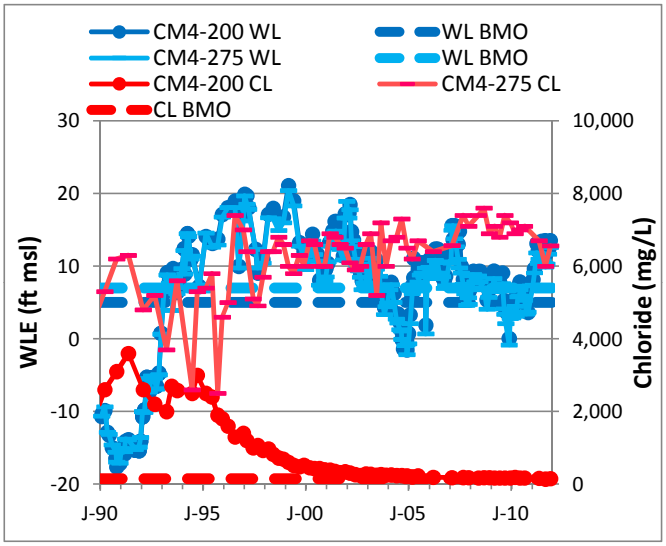
State Well Number (name)	Depth (ft)	Water Level (ft msl)		Chloride (mg/L)		5-yr Trend	
		BMO	2011 Ave	BMO	2011 Ave	Water Level	Chloride
01N23W01C05S (**CM3**-145)	120-145	3	11	150	40	→	→
01N22W20J08S (**A1**-195)	155-195	4	15	150	151	→	→
01N22W20J07S (**A1**-320)	280-320	8	15	150	36	→	→
01N22W28G05S (**CM4**-200)	180-200	5	12	150	151	→	→
01N22W28G04S (**CM4**-275)	255-275	7	11	150	6,421	→	→
01N21W19L12S (**SCE**-220)	200-220	5	8	150	62	→	→
01S22W01H04S (**CM6**-200)	180-200	5	-2	150	3,191	↓	↓
01S22W01H03S (**CM6**-330)	310-330	8	-14	150	2,177	→	↑
01S21W08L04S (**CM1A**-220)	200-220	5	-3	150	16,050	→	→

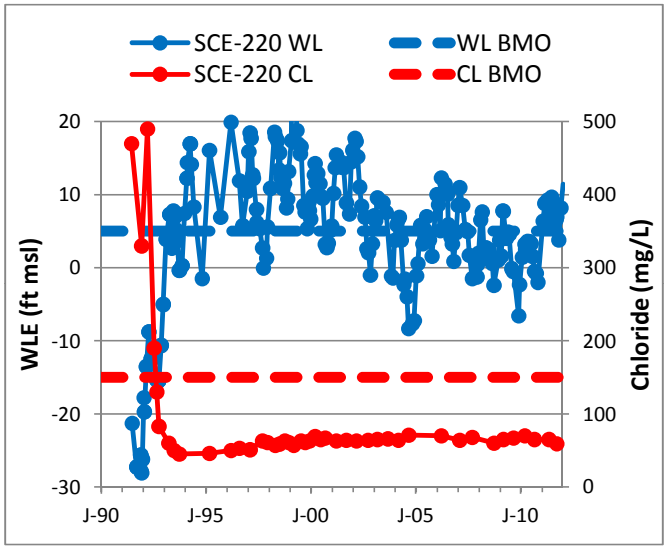


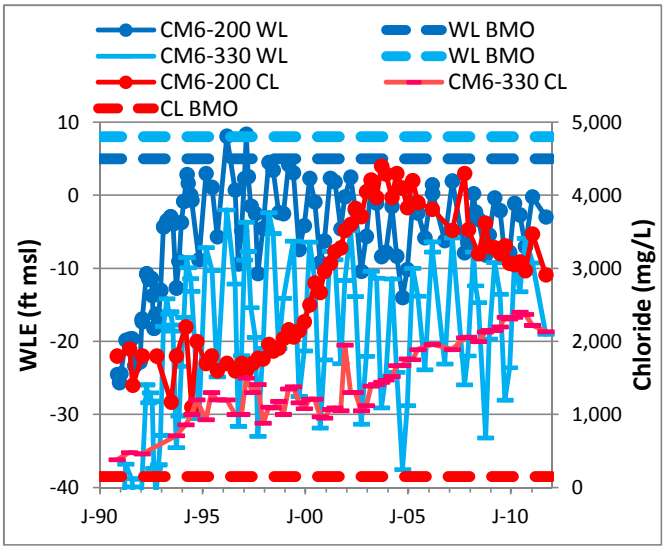
FOX CANYON GMA BASIN MANAGEMENT OBJECTIVES REPORT CARD
OXNARD PLAIN - UPPER AQUIFER SYSTEM
Updated January 2012

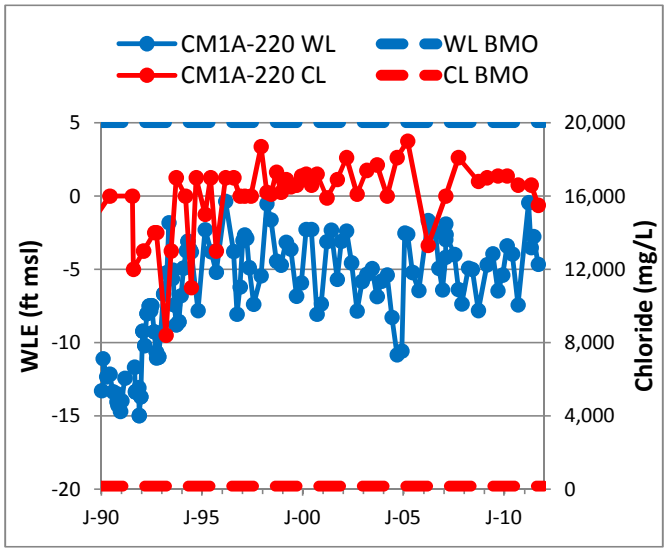












FOX CANYON GMA BASIN MANAGEMENT OBJECTIVES REPORT CARD
OXNARD PLAIN - LOWER AQUIFER SYSTEM
Updated January 2012

Goal: Prevent saline intrusion in the LAS. Sources are seawater inflow via aquifer outcrops in submarine canyons near Port Hueneme and Pt. Mugu and and marine sediments.

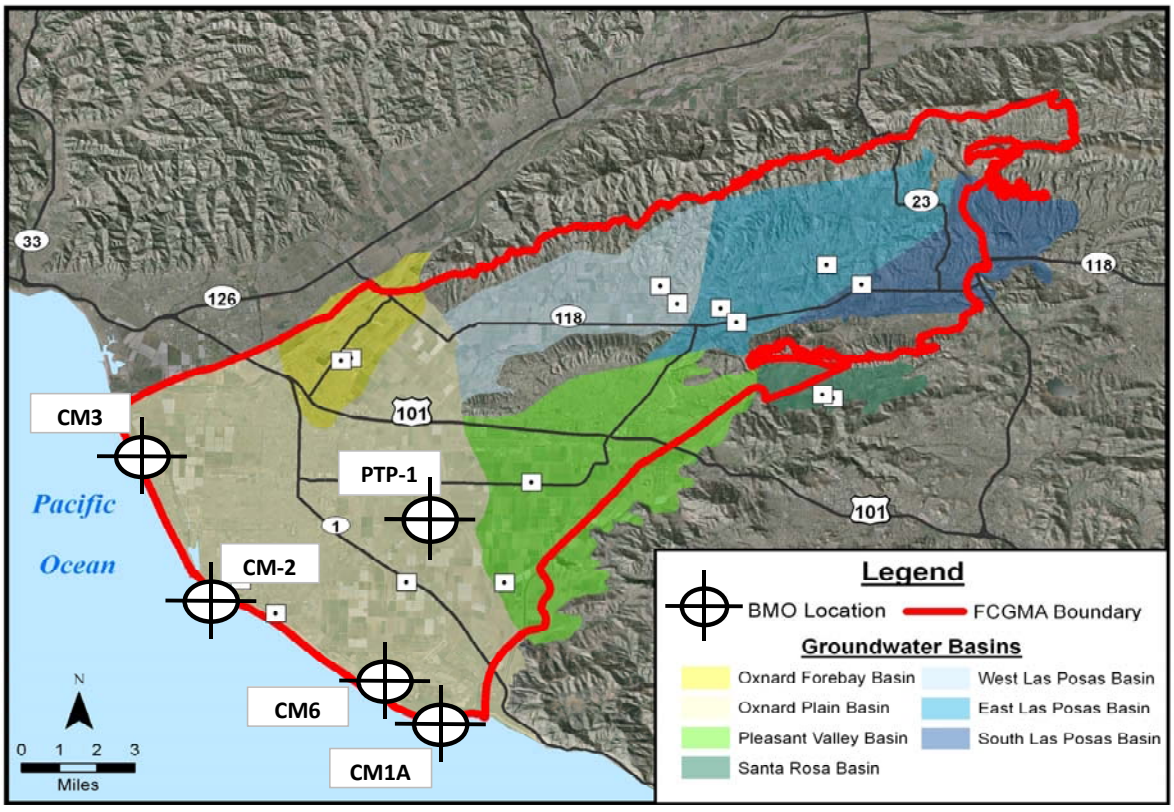
BMOs: Water Levels: Average groundwater elevations suffient to maintain slight seaward groundwater gradient. Elevation varies with location.

Chloride Concentration: 150 mg/L Chloride (LARWQCB Basin Plan Objective).

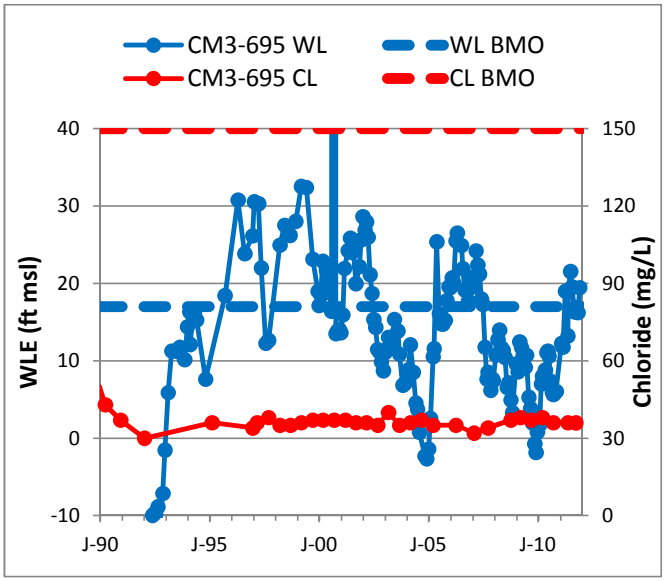
Status Summary: In 2011, water level BMOs were met only at the northern most location along the coast (CM3). Water levels at remaining locations continue to be significantly below their respective BMO. As long as water levels remain depressed, the potential for saline intrusion remains. Consistent with past results, chloride BMOs were not met near Port Hueneme (CM2) and Pt. Mugu (CM1A) (these are areas of documented intrusion).

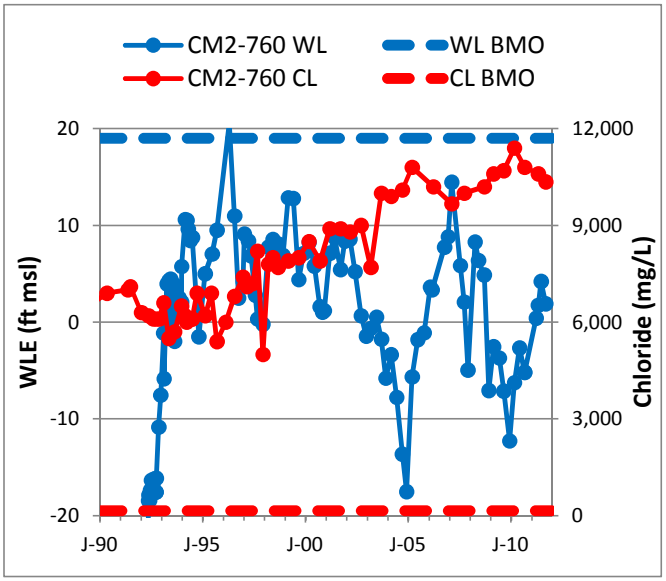
Status Summary Table

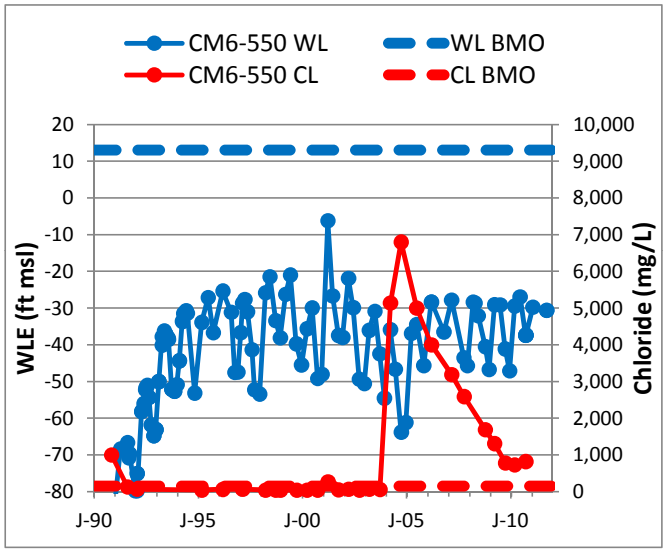
State Well Number (name)	Depth (ft)	Water Level (ft msl)		Chloride (mg/L)		5-yr Trend	
		BMO	2011 Ave	BMO	2011 Ave	Water Level	Chloride
01N23W01C04S (**CM3**-695)	630-695	17	17	150	36	⇩	⇨
01N22W29D02S (**CM2**-760)	720-760	19	2	150	10,475	⇩	⇧
01S22W01H01S (**CM6**-550)	490-550	13	-30	150	*No Data*	⇨	⇩
01S21W08L03S (**CM1A**-565)	525-565	14	-31	150	5,074	⇨	⇧
01N21W07J02S (**PTP #1**)	590-1280	20	-33	150	41	⇨	⇨

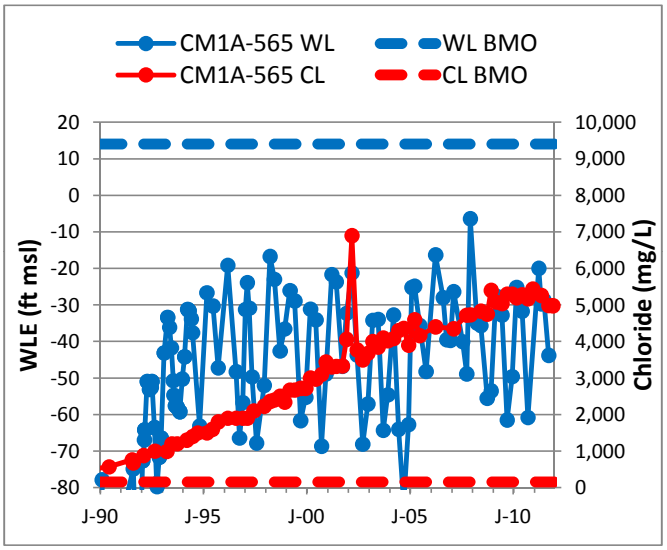


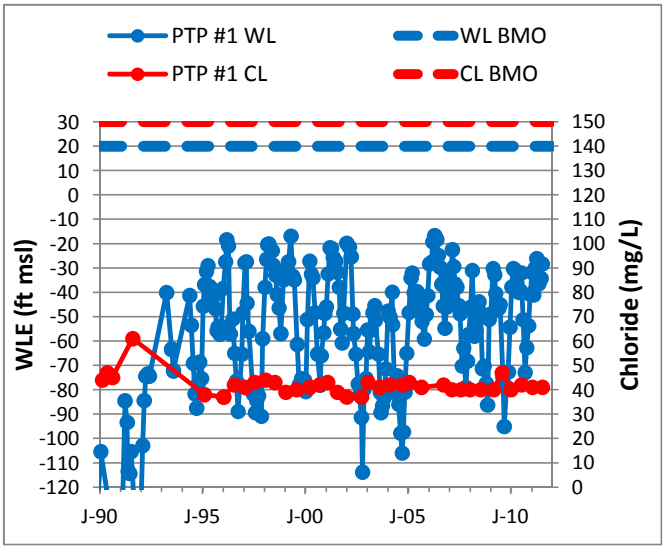
FOX CANYON GMA BASIN MANAGEMENT OBJECTIVES REPORT CARD
OXNARD PLAIN - LOWER AQUIFER SYSTEM
Updated January 2012











FOX CANYON GMA BASIN MANAGEMENT OBJECTIVES REPORT CARD
PLEASANT VALLEY BASIN
Updated January 2012

Goal: Prevent inland migration of saline groundwater from coastal areas, underlying sources, and fine-grained interbeds.

BMOs: Water Levels: Average groundwater elevations suffient to prevent landward migration from coastal areas and minimize vertical gradients.

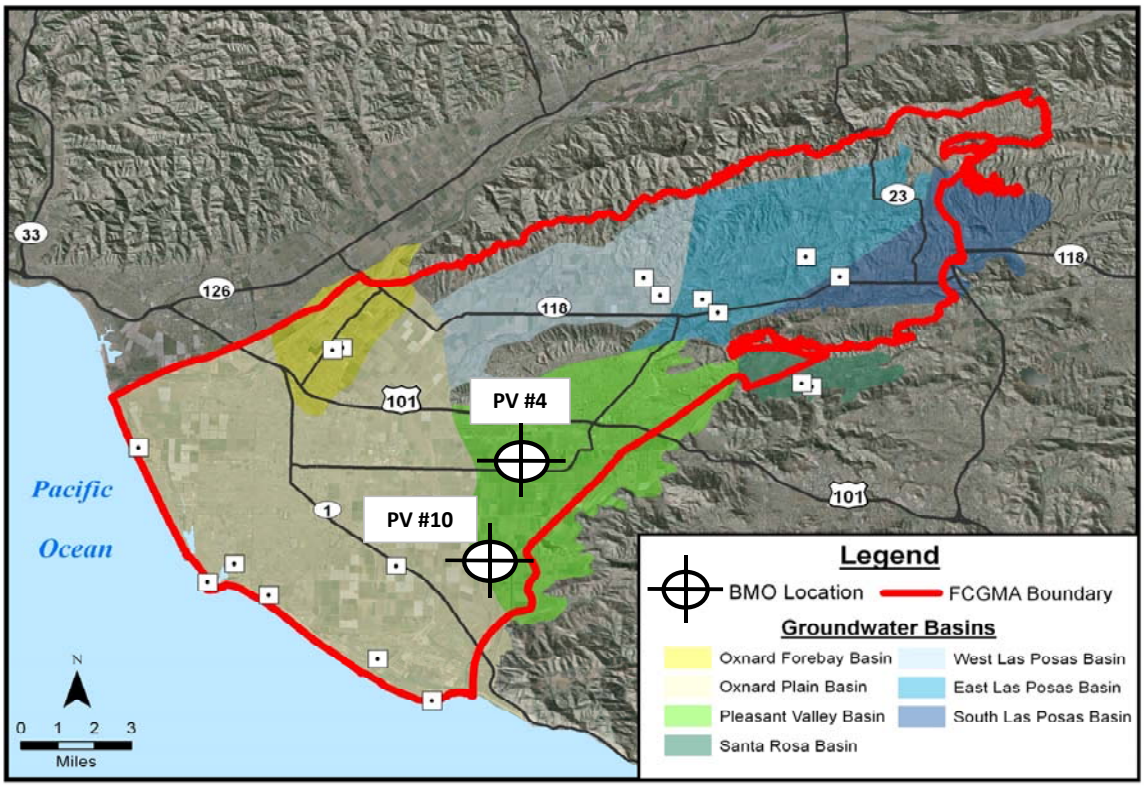
Chloride Concentration: 150 mg/L Chloride (LARWQCB Basin Plan Objective).

Status Summary: In 2011, water level BMOs were not met at either location. Despite rising water levels during the past three years, water levels remain significantly below the BMOs. Chloride BMOs continue to be met at both locations, although concentrations are close to the BMOs and increasing since 2005. With depressed water levels, the risk of increasing chloride concentrations remains.

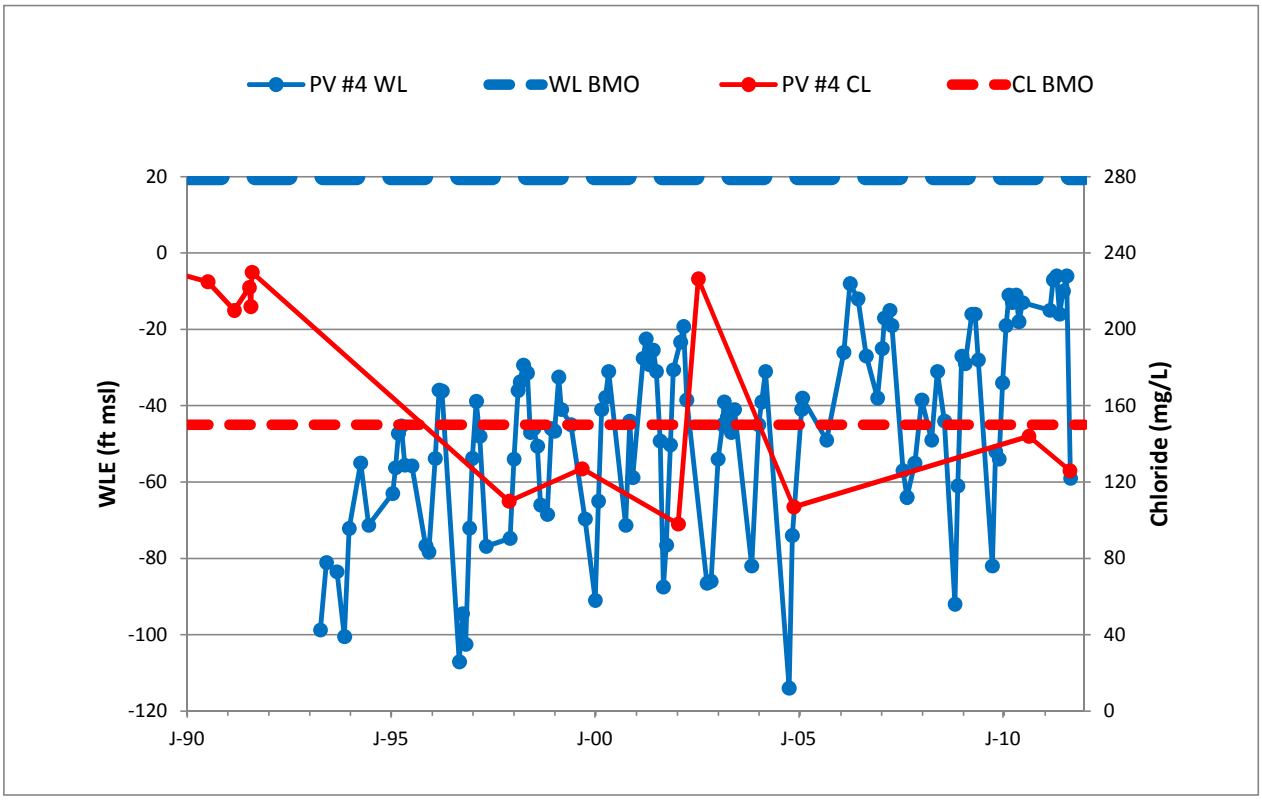
Status Summary Table

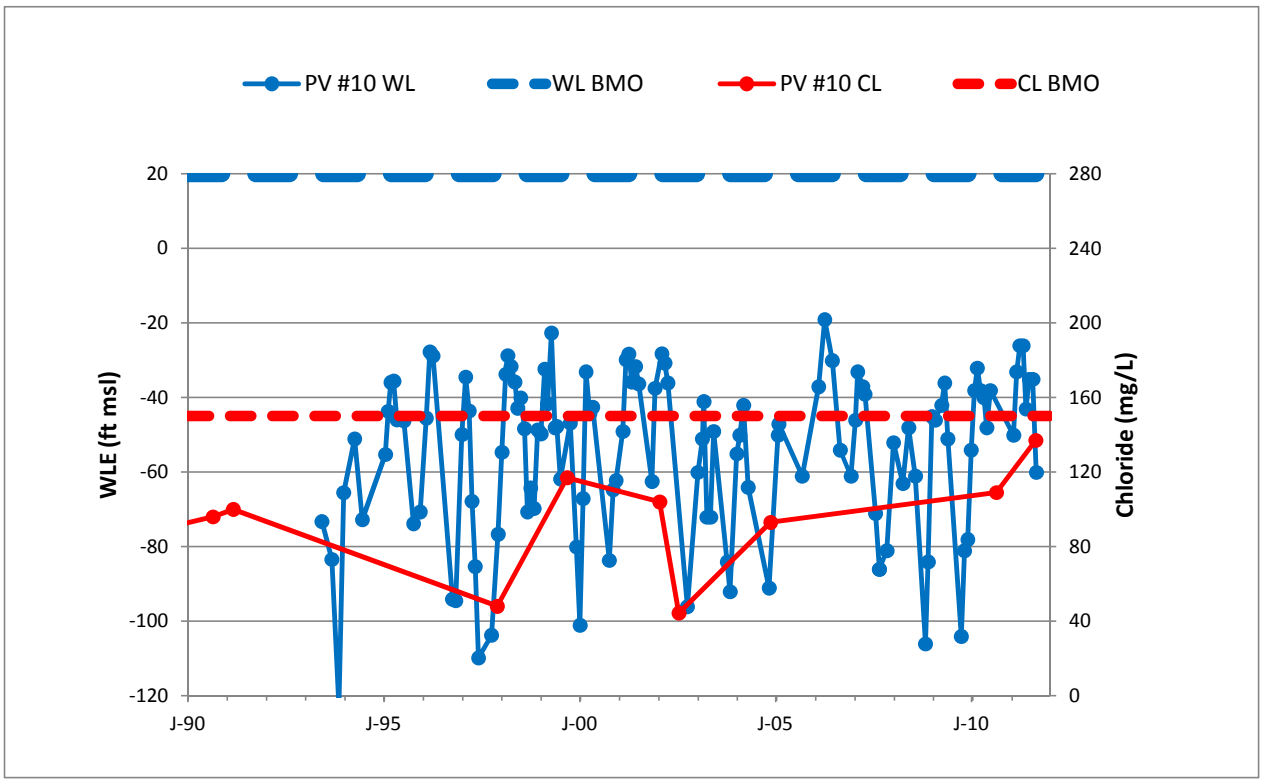
State Well Number (name)	Depth (ft)	Water Level (ft msl)		Chloride (mg/L)		5-yr Trend	
		BMO	2011 Ave	BMO	2011 Ave	Water Level	Chloride*
01N21W03K01S (**PV #4**)	403-1433	20	-17	150	126	⇧	⇨
01N21W21H02S (**PV #10**)	503-863	20	-39	150	137	⇧	⇧

Note: * = Trend evaluation is inconclusive; no chloride data between 2004 and 2010.



FOX CANYON GMA BASIN MANAGEMENT OBJECTIVES REPORT CARD
PLEASANT VALLEY BASIN
Updated January 2012





FOX CANYON GMA BASIN MANAGEMENT OBJECTIVES REPORT CARD
ARROYO SANTA ROSA BASIN
Updated January 2012

Goal: Meet LARWQCB Basin Plan Objectives for nitrate and chloride.

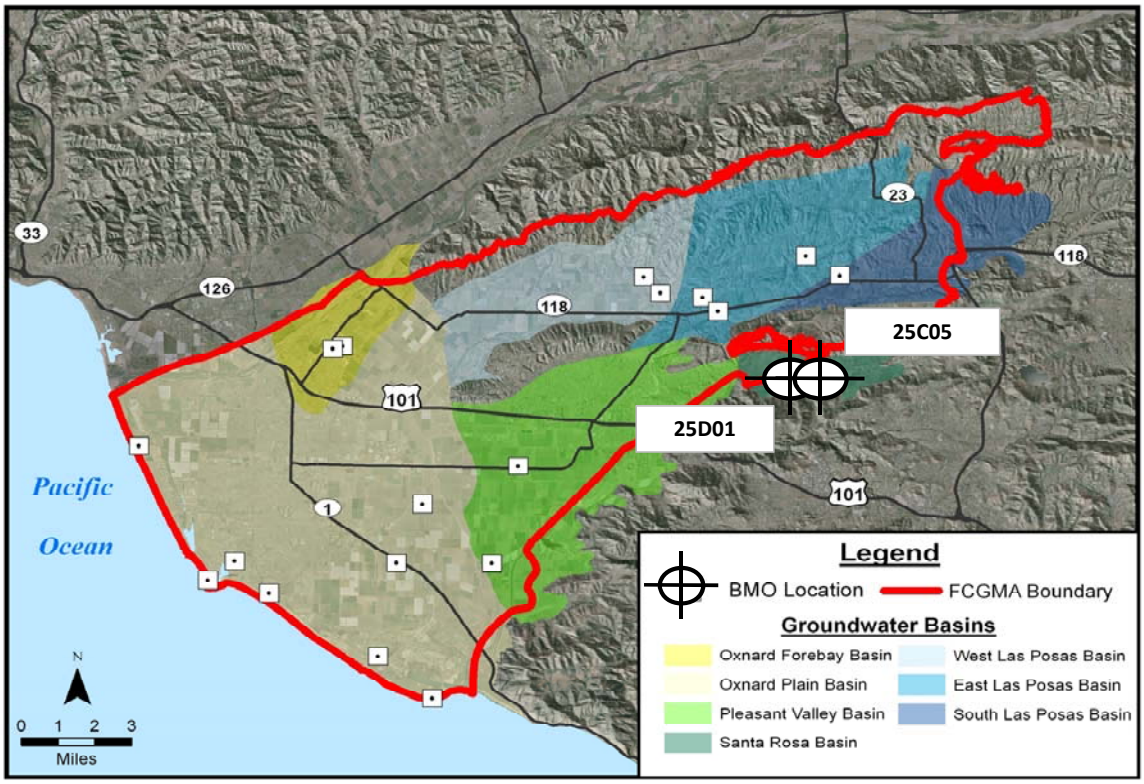
BMOs: Nitrate Concentration: 45 mg/L-NO_3 (LARWQCB Basin Plan Objective & State of CA MCL)

Chloride Concentration: 150 mg/L (LARWQCB Basin Plan Objective)

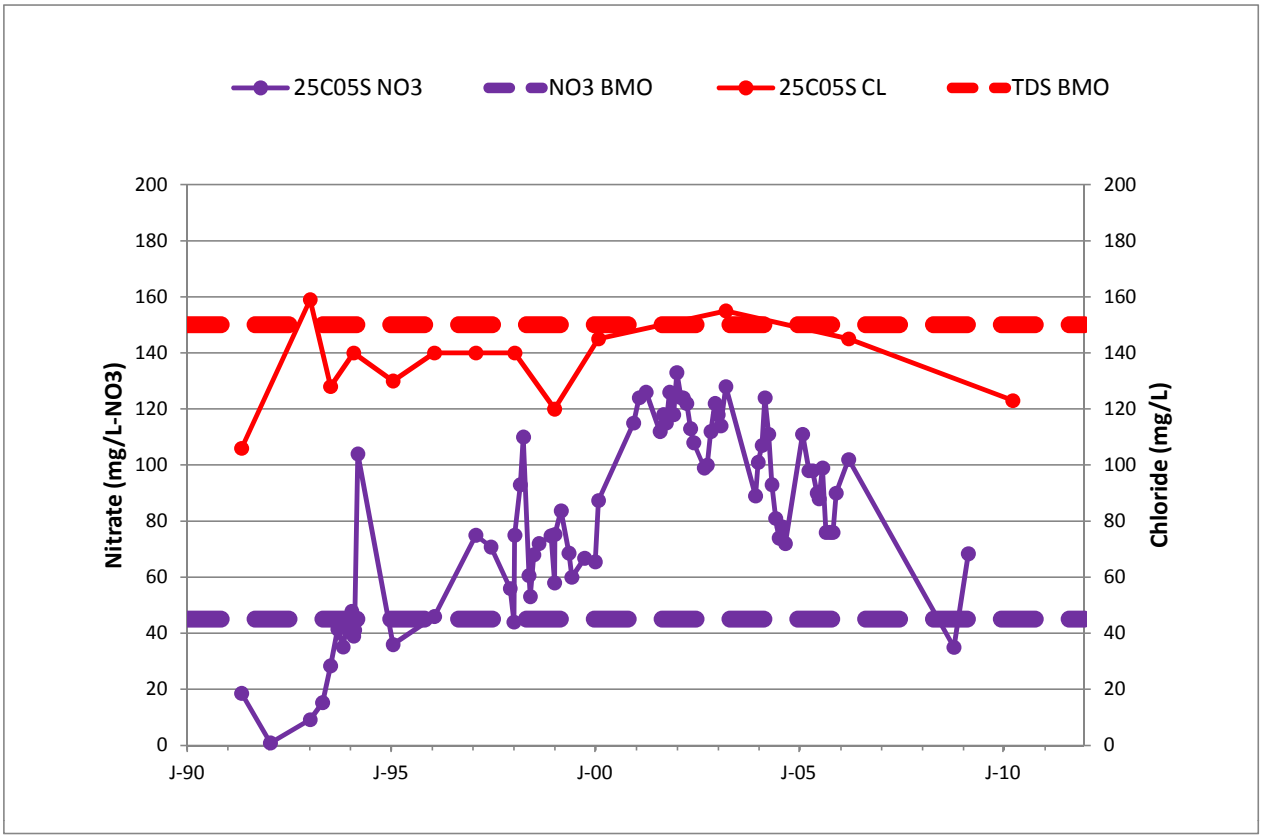
Status Summary: Data for 2011 were limited to one of the two BMO locations (25D1). Nitrate exceeded its BMO (62 vs. 45 mg/L) and chloride was slightly below its BMO (142 vs. 150 mg/L). Available data are not adequate for determining trends during the previous five years. Comparision of recent results with historical data suggests that nitrate and chloride concentrations may be similar to or slightly less than concetrations in the late 1990s and early 2000s.

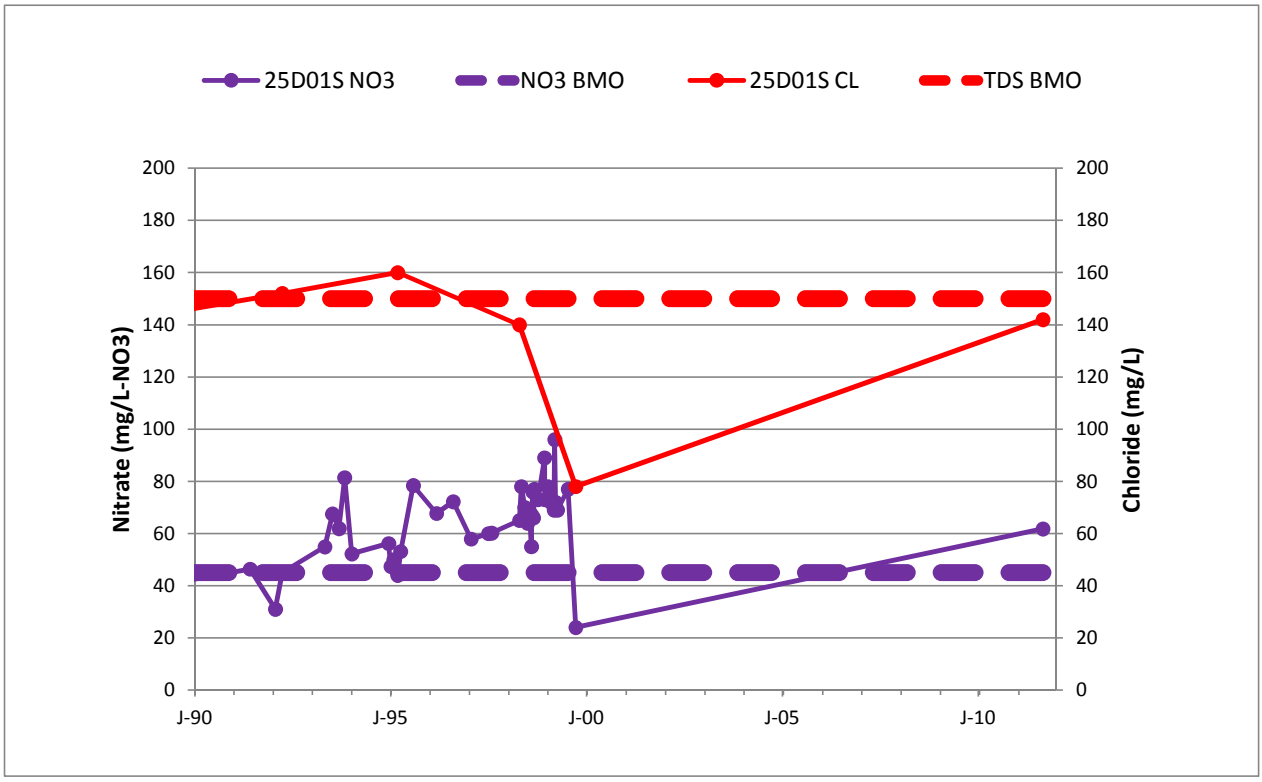
Status Summary Table

State Well Number (name)	Depth (ft)	Nitrate (mg/L)		Chloride (mg/L)		5-yr Trend	
		BMO	2011 Ave	BMO	2011 Ave	Nitrate	Chloride
02N20W25C05S	160-260	45	*No Data*	150	*No Data*	↓	↓
02N20W25D01S	Unknown	45	*62*	150	*142*	*Insufficient Data*	



FOX CANYON GMA BASIN MANAGEMENT OBJECTIVES REPORT CARD
ARROYO SANTA ROSA BASIN
Updated January 2012





FOX CANYON GMA BASIN MANAGEMENT OBJECTIVES REPORT CARD
LAS POSAS BASINS
Updated January 2012

Goal: Maintain chloride and TDS concentrations suitable for irrigation of salt-sensitive crops, particulary avocados and berries. BMOs for SLP are equal to the concentrations observed in surface water in Arroyo Las Posas.

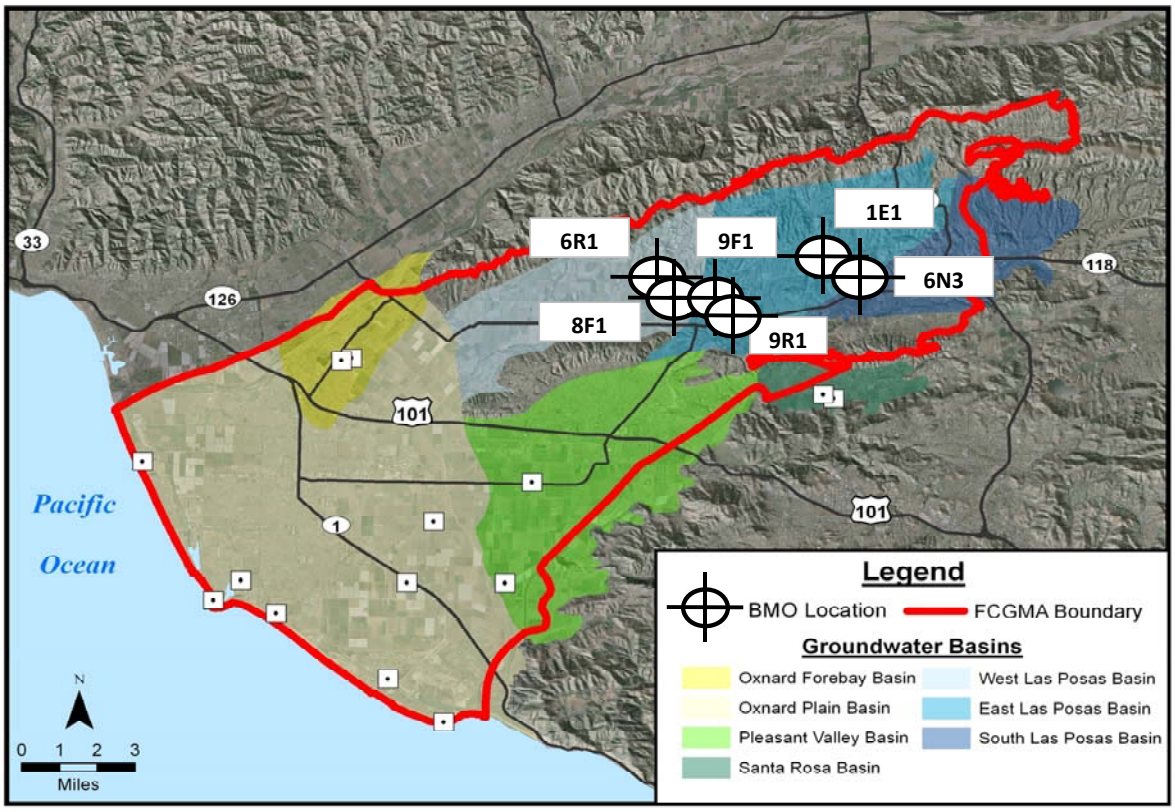
BMOs: Chloride Concentration: WLP & ELP: 100 mg/L; SLP: 160 mg/L.

TDS Concentration: ELP: 500 mg/L; WLP: 600 mg/L; and SLP: 1,500 mg/L.

Status Summary: In 2011, chloride and TDS BMOs were met at all locations except 9F1 and 9R1, which are located within the expanding plume of poor quality water in the East Las Posas Basin. Concentration trends are generally stable at the BMO locations, however, none of the locations are situated at the leading edge of the plume where rising concentrations are being observed. New BMOs will be proposed in the basin-specific plan.

Status Summary Table

State Well Number (name)	Depth (ft)	Chloride (mg/L)		TDS (mg/L)		5-yr Trend	
		BMO	2011 Ave	BMO	2011 Ave	Chloride	TDS
02N20W09F01S (ELP)	906-1,290	100	171	500	1,520	→	→
02N20W09R01S (ELP)	456-724	100	179	500	1,280	→	→
02N20W01E01S (ELP)	567-907	100	30	500	416	*Insufficient Data*	
02N20W06R01S (WLP)	1,090-1,512	100	15	600	520	→	→
02N20W08F01S (WLP)	752-1,406	100	12	600	363	→	→
02N19W06N03S (SLP)	101-121	160	*No Data*	1500	*No Data*	*No Data*	



FOX CANYON GMA BASIN MANAGEMENT OBJECTIVES REPORT CARD
LAS POSAS BASINS
Updated January 2012