

South American Subbasin Groundwater Sustainability Plan Development

SASB –DATA COLLECTION FOR COSANA MODEL UPDATE

SASb GSPWG:

County of Sacramento

Northern Delta

Omochumne-Hartnell Water
District

Sacramento Central Groundwater
Authority

Sloughouse RCD

November 19, 2021



CoSANA Model Updates

- As part of GSP development, the CoSANA model historical simulation was developed and simulated for water years 1990 through 2018
- Between now and January, the model will be updated to include the 2019-2021 water years to provide data needed for future GSP-related analyses

Data Collection for CoSANA Model Updates

- Model input data needed for water years 2019-2021 includes:
 - Precipitation
 - Streamflow
 - Evapotranspiration
 - Groundwater production
 - Surface water deliveries

Data Collection for CoSANA Model Updates

- The following data is needed from local entities:
 - Groundwater production
 - Surface water deliveries
- Data collection templates will be provided to each entity
- It is requested that all data be provided by no later than Friday, Dec 10.

Data Collection for CoSANA Model Updates

- Data needed for SASb entities:

Subbasin	Agency	Sector	Type	Notes
SASb	OHWD	Ag	SW deliveries	Previously estimated using eWRIMS data
SASb	RMCS D	Ag	SW deliveries	Previously estimated using eWRIMS data
SASb	SRCD	Ag	SW deliveries	Previously estimated using eWRIMS data
SASb	Aerojet/IRCTS	Remediation	GW pumping	
SASb	Kiefer LF	Remediation	GW pumping	
SASb	Mather	Remediation	GW pumping	
SASb	CalAm	Urban	SW & GW	
SASb	Golden State WC	Urban	SW & GW	
SASb	City of Sacramento	Urban	SW & GW	
SASb	City of Folsom	Urban	SW deliveries	
SASb	Florin County WD	Urban	GW pumping	
SASb	Sacramento County WA	Urban	SW & GW	
SASb	Elk Grove WD	Urban	GW pumping	
SASb	Rancho Murieta CSD	Urban	SW deliveries	

Template Examples for CoSANA Data Collection

- Groundwater Pumping

Well-by-well pumping for Sacramento County WA						
<i>Notes:</i> All values are in acre-feet/month Rows highlighted in blue contain data currently in the model Rows highlighted in green need data updates Negative values are well injections Values at top of column below description are model reference #'s (can ignore)						
			Description	/ SACRAMENTO COUNTY NATIONAL WELL NW-36	/ SACRAMENTO COUNTY NORTHGATE 880 WELL NW-15	/ SACRAMENTO COUNTY TOLENAS WELL NW-1
Date	Month	Water Year	Calendar Year	498	499	500
10/31/2008	10	2009	2008	0.13	0.34	91.56
11/30/2008	11	2009	2008	0.52	0.27	36.81
12/31/2008	12	2009	2008	0.13	0.47	17.28
01/31/2009	1	2009	2009	0.27	0.21	1.12
02/28/2009	2	2009	2009	0.29	0.21	1.98
03/31/2009	3	2009	2009	0.49	0.14	23.83
04/30/2009	4	2009	2009	0.21	0.04	80.87
05/31/2009	5	2009	2009	0.14	0.10	93.36
06/30/2009	6	2009	2009	0.42	0.13	123.42
07/31/2009	7	2009	2009	0.01	0.11	122.62
08/31/2009	8	2009	2009	0.04	0.09	120.59
09/30/2009	9	2009	2009	0.86	0.10	113.62
10/31/2018	10	2019	2018			
11/30/2018	11	2019	2018			
12/31/2018	12	2019	2018			
1/31/2019	1	2019	2019			
2/28/2019	2	2019	2019			
3/31/2019	3	2019	2019			
4/30/2019	4	2019	2019			
5/31/2019	5	2019	2019			
6/30/2019	6	2019	2019			
7/31/2019	7	2019	2019			
8/31/2019	8	2019	2019			
9/30/2019	9	2019	2019			

- Surface Water Deliveries

Surface Water Deliveries for Sacramento County WA							
<i>Notes:</i> All values are in acre-feet/month Negative values are well injections Rows highlighted in blue contain data currently in the model Rows highlighted in green need data updates Values at top of column below description are model reference #'s (can ignore)							
					Laguna Vineyard Surface Water Deliveries (via Freeport)	Laguna Vineyard Recycled Water Deliveries	Mather Surface Water Deliveries
Date	Month	Water Year	Calendar Year		62	63	65
10/31/2008	10	2009	2008		0	0	0
11/30/2008	11	2009	2008		0	0	0
12/31/2008	12	2009	2008		0	0	0
01/31/2009	1	2009	2009		0	0	0
02/28/2009	2	2009	2009		0	0	0
03/31/2009	3	2009	2009		0	0	0
04/30/2009	4	2009	2009		0	0	0
05/31/2009	5	2009	2009		0	0	0
06/30/2009	6	2009	2009		0	0	0
07/31/2009	7	2009	2009		0	0	0
08/31/2009	8	2009	2009		0	0	0
09/30/2009	9	2009	2009		0	0	0
10/31/2018	10	2019	2018				
11/30/2018	11	2019	2018				
12/31/2018	12	2019	2018				
1/31/2019	1	2019	2019				
2/28/2019	2	2019	2019				
3/31/2019	3	2019	2019				
4/30/2019	4	2019	2019				
5/31/2019	5	2019	2019				
6/30/2019	6	2019	2019				
7/31/2019	7	2019	2019				
8/31/2019	8	2019	2019				
9/30/2019	9	2019	2019				