

BC

14-161

Form 9-1366  
(Oct. 2005)

**U.S. DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
JOINT FUNDING AGREEMENT**

Customer #: 6000000816  
Agreement #: 14WSCA03900  
Project #:  
TIN #: 95-6002833  
Fixed Cost Agreement YES

FOR  
WATER RESOURCES INVESTIGATIONS

**THIS AGREEMENT is entered into as of the, 1st day of November, 2013 by the U.S. GEOLOGICAL SURVEY, UNITED STATES DEPARTMENT OF THE INTERIOR, party of the first part, and the SANTA BARBARA COUNTY WATER AGENCY, party of the second part.**

1. The parties hereto agree that subject to availability of appropriations and in accordance with their respective authorities there shall be maintained in cooperation for cooperative water resources investigations in the Santa Barbara County area as outlined in the USGS program letter dated November 21, 2013 (Attachment A), herein called the program. The USGS legal authority is 43 USC 36C; 43 USC 50; and 43 USC 50b.

2. The following amounts shall be contributed to cover all of the cost of the necessary field and analytical work directly related to this program. 2(b) includes In-Kind Services in the amount of \$0.00.

(a) by the party of the first part during the period

Amount	Date	to	Date
\$115,900.00	November 1, 2013		October 31, 2014

(b) by the party of the second part during the period

Amount	Date	to	Date
\$305,330.00	November 1, 2013		October 31, 2014

USGS DUNS is 1761-38857

(c) Additional or reduced amounts by each party during the above period or succeeding periods as may be determined by mutual agreement and set forth in an exchange of letters between the parties.

(d) The performance period may be changed by mutual agreement and set forth in an exchange of letters between the parties.

3. The costs of this program may be paid by either party in conformity with the laws and regulations respectively governing each party.

4. The field and analytical work pertaining to this program shall be under the direction of or subject to periodic review by an authorized representative of the party of the first part.

5. The areas to be included in the program shall be determined by mutual agreement between the parties hereto or their authorized representatives. The methods employed in the field and office shall be those adopted by the party of the first part to insure the required standards of accuracy subject to modification by mutual agreement.

6. During the course of this program, all field and analytical work of either party pertaining to this program shall be open to the inspection of the other party, and if the work is not being carried on in a mutually satisfactory manner, either party may terminate this agreement upon 60 days written notice to the other party.

**9-1366 (Continuation)**      Customer #:                      6000000816                      Agreement #:                      14WSCA03900

7. The original records resulting from this program will be deposited in the office of origin of those records. Upon request, copies of the original records will be provided to the office of the other party.
8. The maps, records, or reports resulting from this program shall be made available to the public as promptly as possible. The maps, records, or reports normally will be published by the party of the first part. However, the party of the second part reserves the right to publish the results of this program and, if already published by the party of the first part shall, upon request, be furnished by the party of the first part, at costs, impressions suitable for purposes of reproduction similar to that for which the original copy was prepared. The maps, records, or reports published by either party shall contain a statement of the cooperative relations between the parties.
9. USGS will issue billings utilizing Department of the Interior Bill for Collection (form DI-1040). Billing documents are to be rendered quarterly. Payments of bills are due within 60 days after the billing date. If not paid by the due date, interest will be charged at the current Treasury rate for each 30 day period, or portion thereof, that the payment is delayed beyond the due date. (31 USC 3717; Comptroller General File B-212222, August 23, 1983).

<p><b>U.S. Geological Survey</b>  <b>United States</b>  <b>Department of the Interior</b>  <u><b>USGS Point of Contact</b></u></p>	<p><b>SANTA BARBARA COUNTY</b>  <b>WATER AGENCY</b>  <u><b>Customer Point of Contact</b></u></p>
<p>Name:            Tammy Seubert                  Address:        6000 J Street, Placer Hall                                      Sacramento, CA 95819-6129                  Telephone:     (916) 278-3040                  Email:           tseubert@usgs.gov</p>	<p>Name:            Thomas D. Fayram, Deputy Public Works Director                  Address:        130 East Victoria Street, Suite 200                                      Santa Barbara, CA 93101                  Telephone:                  Email:</p>

**Signatures and Date**

Signature: _____	Date: _____	Signature: _____	Date: _____
 Name:            Eric G. Reichard Title:            Director, USGS California Water Science Center	11/21/2013	<p><u>See page 3 for County signatures</u></p>	

Signature: _____	Date: _____	Signature: _____	Date: _____
Name: _____	Name: _____	Title: _____	Title: _____

Signature: _____	Date: _____	Signature: _____	Date: _____
Name: _____	Name: _____	Title: _____	Title: _____

Customer No. 600000816  
Agreement No. 14WSCA03900  
TIN #: 95-6002833

**Signature Page Continued - Page 3**

SANTA BARBARA COUNTY WATER AGENCY

By: \_\_\_\_\_  
Chair, Board of Directors

Date: \_\_\_\_\_

ATTEST:  
MONA MIYASATO  
CLERK OF THE BOARD

BY: \_\_\_\_\_  
Deputy

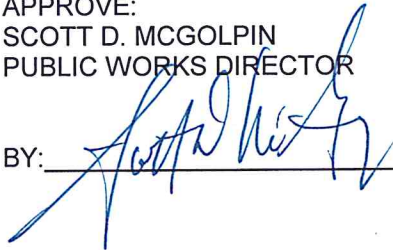
APPROVED AS TO FORM:  
MICHAEL C. GHIZZONI  
COUNTY COUNSEL

BY:  \_\_\_\_\_  
Deputy

APPROVE AS TO ACCOUNTING FORM:  
ROBERT W. GEIS, CPA  
AUDITOR-CONTROLLER

BY:  \_\_\_\_\_  
Deputy

APPROVE:  
SCOTT D. MCGOLPIN  
PUBLIC WORKS DIRECTOR

BY:  \_\_\_\_\_

Attachment A - Program Letter



United States Department of the Interior

U.S. GEOLOGICAL SURVEY  
California Water Science Center  
6000 J Street, Placer Hall  
California State University  
Sacramento, California 95819-6129  
Phone: (916) 278-3000 Fax: (916) 278-3070  
<http://water.wr.usgs.gov>

November 21, 2013

Mr. Thomas D. Fayram, Deputy Director  
Santa Barbara County Water Agency  
130 East Victoria Street, Suite 200  
Santa Barbara, California 93101

Dear Mr. Fayram:

This letter confirms discussions between Santa Barbara County Water Agency (SBCWA) and U.S. Geological Survey (USGS), concerning the continuation of the water resources program for the period November 1, 2013 to October 31, 2014. This program letter serves as "Attachment A" for Joint Funding Agreement (JFA) 14WSCA03900.

Changes to the program include the addition of thirteen (13) wells to the September measurements (List A-2). These water levels are part of the California Statewide Groundwater Elevation Monitoring (CASGEM) program. Two (2) new wells have been added to the July water quality sampling list, and will be analyzed for the constituents shown in List C. Program cost increase is \$1,500 for 13 water levels and \$3,000 for two water quality samples.

The proposed program for this period and associated costs are as follows:

**I. Santa Barbara County Water Agency**

**A. Surface Water Streamgaging Stations:  
Operation and Maintenance**

<u>Station number and name</u>	<u>SBCWA Funds</u>	<u>USGS Funds</u>	<u>Total Funds</u>
11119500 Carpinteria Creek near Carpinteria	\$ 13,550	\$ 6,850	\$ 20,400
11119750 Mission Creek near Mission Street at Santa Barbara	13,550	6,850	20,400
11120000 Atascadero Creek near Goleta	13,550	6,850	20,400
11120500 San Jose Creek near Goleta	13,550	6,850	20,400
11123500 Santa Ynez River below Los Laureles Canyon near Santa Barbara	13,550	6,850	20,400

Surface Water Streamgaging Stations (continued):

Operation and Maintenance

<u>Station number and name</u>		<u>SBCWA</u> <u>Funds</u>	<u>USGS</u> <u>Funds</u>	<u>Total</u> <u>Funds</u>
11124500	Santa Cruz Creek near Santa Ynez	13,550	6,850	20,400
11128250	Alamo Pintado Creek near Solvang	13,550	6,850	20,400
11128300	Alisal Reservoir near Solvang	7,900	-0-	7,900
11129800	Zaca Creek near Buellton	13,550	6,850	20,400
11132500	Salsipuedes Creek near Lompoc	13,550	6,850	20,400
11135800	San Antonio Creek at Los Alamos	13,550	6,850	20,400
11136800	Cuyama River below Buckhorn Canyon	13,550	6,850	20,400
11138500	Sisquoc River near Sisquoc	22,600	-0-	22,600
11140585	Santa Maria River at Suey Crossing	13,550	6,850	20,400
11141050	Orcutt Creek near Orcutt	<u>13,550</u>	<u>6,850</u>	<u>20,400</u>
<b>SW Streamgaging Stations Subtotal</b>		<b>\$206,650</b>	<b>\$89,050</b>	<b>\$295,700</b>

**B. Groundwater Monitoring Program:**

**1. Water-level monitoring**

The USGS will conduct monitoring of approximately 280 wells in the spring and approximately 75 wells in the fall as part of the SBCWA wide monitoring program described by lists A-1 and A-2 files.

The program continues to evolve as groundwater level and quality sites are lost each year due to abandonment by legal owner, obstruction, denied access, etc. Water-level and water-quality sites need to be evaluated on an ongoing basis to ascertain that the program is collecting the best data and is as cost efficient as possible. SBCWA staff will assist the USGS staff on an annual basis to complete this task. This task was identified in the summer of 2002, and has been worked on intensively in recent years.

**2. Biannual water-level monitoring in March and September to meet California Statewide Groundwater Elevation Monitoring (CASGEM) requirements.**

**3. Water-quality monitoring**

In 1981, a groundwater quality network was reestablished in selected basins of Santa Barbara County (List B). Water samples from 19 of the wells listed in the network will be collected annually, during the pumping season (in July), and analyzed for the constituents shown in List C. Twenty wells and two alternates are currently listed as sampling options for July groundwater sampling in List B.

**B. Groundwater Monitoring Program (continued):**

**4. Seawater encroachment monitoring**

Four water samples from four different water-bearing zones from each of the two well groups known as Guadalupe Dunes will be obtained once during the year at the end of the pumping season in November (List B). These 8 well samples will be analyzed for the chemical constituents shown in List C. Water-levels will be included.

Water samples noted by a double asterisk in List B will be obtained at the same time as prescribed in the Santa Ynez River Water Conservation District program letter. These samples will be analyzed for the constituents on List C, plus barium and iodide. The results of chemical analyses will be provided to the SBCWA as they become available.

A total of 31 water quality monitoring wells will be sampled and analyzed annually for the constituents noted on List C.

**C. Surface Water Quality Monitoring Program:**

1. Stream-quality stations - Water samples will be collected on a monthly basis, as flow permits, at the stations listed below. Once per year (as flow permits, and usually during the month of April) samples will be collected for the constituents on List C. Field determinations of pH, alkalinity, dissolved oxygen, specific conductance, temperature, and discharge will also be made. All other monthly samples will be analyzed for pH, total dissolved solids, specific conductance, temperature, and discharge.

11123500	Santa Ynez River below Los Laureles Canyon near Santa Ynez
11124500	Santa Cruz Creek near Santa Ynez
11132500	Salsipuedes Creek near Lompoc
11133000	Santa Ynez River at Narrows near Lompoc
11135800	San Antonio Creek at Los Alamos
11136800	Cuyama River below Buckhorn Canyon near Santa Maria
11138500	Sisquoc River near Sisquoc
11141050	Orcutt Creek near Orcutt

2. Continuous temperature recording, specific conductance, and dissolved oxygen at Santa Ynez River near Santa Ynez (11126000).<sup>1</sup>

Following is a summary of the work and associated costs for the Santa Barbara County Water Agency during the period November 1, 2013 to October 31, 2014:

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<sup>1</sup> Cost of the continuous water quality monitoring at station 11126000 Santa Ynez River near Santa Ynez is split between four agencies as follows:

Santa Barbara County \$3,300

Cachuma Operations Management Board \$12,650

Santa Ynez River Water Conservation District \$2,450 located on City of Lompoc Program

City of Lompoc \$3,350

Mr. Thomas D. Fayram, Deputy Director- Santa Barbara County Water Agency

	<u>SBCWA</u> <u>Funds</u>	<u>USGS</u> <u>Funds</u>	<u>Total</u> <u>Funds</u>
<b>A. Surface Water Streamgaging Stations</b>			
Operation and Maintenance	\$206,650	\$ 89,050	\$295,700
<b>B. Groundwater Monitoring</b>			
1. Water-levels	38,500	950	39,450
2. CASGEM Water-levels	1,500	-0-	1,500
3. Water-quality	21,650	8,450	30,100
4. Seawater encroachment			
- Guadalupe	9,050	4,200	13,250
- Surf	5,200	2,050	7,250
<b>C. Surface Water Quality Monitoring</b>			
1. Stream-quality stations <sup>2</sup>	19,480	9,800	29,280
2. Continuous temperature, specific conductance, and dissolved oxygen <sup>3</sup>	<u>3,300</u>	<u>1,400</u>	<u>4,700</u>
<b>Total</b>	<b>\$305,330</b>	<b>\$115,900</b>	<b>\$421,230</b>

Total cost of the proposed program is \$421,230. Cost to SBCWA will be \$305,330 and subject to the availability of Federal matching funds, the USGS will provide \$115,900.

Enclosed are three originals of JFA 14WSCA03900, signed by our agency, for your approval. If you are in agreement with this proposed program, please return one fully executed JFA to our office. Work performed with funds from this agreement will be conducted on a fixed-price basis. Billing for this agreement will be rendered quarterly.

The USGS is required to have an agreement in place prior to any work being performed on a project. Although monitoring work has continued since November 1, 2013, this agreement has not been executed due to delays associated with the Federal Government's Sequester and lapse in appropriation. We request that the JFA be returned prior to January 31, 2014. If it is not received by January 31, we will be required to suspend operations until an agreement is received.

If you have any questions concerning this program, please contact Matthew Scrudato, in our Santa Maria Field office, at (805) 928-9539. If you have any administrative questions, please contact Tammy Seubert, in our Sacramento Office, at (916) 278-3040.

Sincerely,



Eric G. Reichard  
Director, USGS California Water Science Center

Enclosures

cc: Matthew C. Scrudato , USGS CAWSC

<sup>2</sup> Stream-quality stations average cost for SBCWA is \$2,435. The USGS average cost for these stations is \$1,225.  
<sup>3</sup> SBCWA to be reimbursed \$3,300 by the City of Lompoc.

Mr. Thomas D. Fayram, Deputy Director- Santa Barbara County Water Agency

List A-1: Groundwater Wells Measured Annually Page 1 of 2

Santa Barbara County Water Agency

USGS (updated 07/16/2013 by M.E. Melchiorsen)

4N/28W-2P3	7N/30W-22E1	7N/34W-31R2
4N/28W-16J5	7N/30W-22E2	7N/34W-32H2
4N/30W-1G1	7N/30W-24Q1	7N/34W-35L7
5N/29W-31C1	7N/30W-25Q2	7N/34W-35K9
5N/30W-19E1	7N/30W-27H1	7N/34W-35L7
5N/30W-28R1	7N/30W-29D1	7N/35W-15M1
5N/30W-28R2	7N/30W-30M1	7N/35W-17M1
5N/30W-30N2	7N/30W-32R1	7N/35W-17K20
6N/29W-5A1*	7N/30W-33M1	7N/35W-18H1
6N/29W-6F1	7N/30W-35R1	7N/35W-18J2
6N/29W-6G1	7N/30W-36N2	7N/35W-21G2
6N/29W-7L1	7N/30W-36N3	7N/35W-22J1
6N/29W-8P1	7N/31W-22A3*	7N/35W-22M1
6N/29W-8P2	7N/31W-23P1	7N/35W-23B2
6N/30W-1R3	7N/31W-34M1	7N/35W-23E6
6N/30W-7G5	7N/31W-35K4*	7N/35W-23Q2
6N/30W-7G6	7N/31W-36L2	7N/35W-23Q3
6N/30W-11G1	7N/32W-7B1	7N/35W-23Q4
6N/30W-11G2	7N/32W-31M1	7N/35W-24J4
6N/31W-1P2	7N/33W-16G5	7N/35W-24K5
6N/31W-1P3	7N/33W-17M1	7N/35W-24N3
6N/31W-2K1	7N/33W-17N2	7N/35W-25F6
6N/31W-3A1	7N/33W-19D1	7N/35W-25F7
6N/31W-4A1	7N/33W-20G1	7N/35W-26F4
6N/31W-7F1	7N/33W-21G2	7N/35W-26L1
6N/31W-10F1	7N/33W-21N1	7N/35W-26L2
6N/31W-11D4	7N/33W-27G1	7N/35W-26L4
6N/31W-13D1	7N/33W-28D3	7N/35W-27C1
6N/31W-17F1	7N/33W-36J1	7N/35W-27F1
6N/31W-17F3	7N/34W-12E1	7N/35W-27H5
6N/32W-2Q1*	7N/34W-14F4	7N/35W-27J1
6N/32W-16P3	7N/34W-14L1*	7N/35W-27P1
6N/32W-18H1	7N/34W-15D1	7N/35W-30G1
6N/33W-8R1	7N/34W-15D2	7N/35W-31J2
6N/33W-8J3	7N/34W-15D3 (?)	7N/35W-32N1
6N/33W-9M1	7N/34W-15E1	7N/35W-35A3
6N/33W-11L4	7N/34W-15P2	8N/24W-6J2
6N/34W-6C4	7N/34W-20K4	8N/31W-22J1
6N/34W-12C5	7N/34W-22J6	8N/31W-22J2
6N/36W-1K2	7N/34W-24N1	8N/31W-25K1
6N/36W-26C1	7N/34W-26H3	8N/31W-25Q1
6N/36W-26G1	7N/34W-27G6	8N/31W-36H1
7N/29W-29R1	7N/34W-29E4	8N/32W-25D1
7N/29W-29R2	7N/34W-29N6	8N/32W-28P1
7N/30W-16B1*	7N/34W-29N7	8N/32W-28P4*
7N/30W-19H1	7N/34W-30L10	8N/32W-29L2

Single asterisk (\*) for monitoring wells in List A-1 sampled biannually (March and September) to meet CASGEM requirements.



Mr. Thomas D. Fayram, Deputy Director- Santa Barbara County Water Agency

List A-1: Groundwater Wells Measured Annually Page 2 of 2

Santa Barbara County Water Agency

USGS (updated 07/16/2013 by M.E. Melchiorson)

8N/32W-30D1	9N/32W-33F1	10N/33W-27G1
8N/32W-30E5	9N/32W-33M1	10N/33W-28A1
8N/33W-13C1	9N/32W-33M2	10N/33W-28F2
8N/33W-13Q1*	9N/33W-2A7	10N/33W-29F1
8N/33W-19K1	9N/33W-6G1	10N/33W-30G1
8N/33W-20Q2	9N/33W-10E1	10N/33W-31Q2
8N/33W-22K3*	9N/33W-12C1	10N/33W-34E1
8N/33W-24B3	9N/33W-12R2	10N/33W-35B1
8N/33W-25B5	9N/33W-15D3 (Golden State Water)	10N/34W-6N3
8N/34W-2M1	9N/33W-? (Golden State Water)	10N/34W-9D1
8N/34W-9K1 (currently obstructed)	9N/33W-22K1	10N/34W-13C1
8N/34W-14L1	9N/33W-22L1	10N/34W-13G1
8N/34W-15F2	9N/33W-24L1	10N/34W-13H1
8N/34W-15F4	9N/34W-3A2	10N/34W-13J1
8N/34W-16C1	9N/34W-3F2	10N/34W-14E4
8N/34W-16C2	9N/34W-6C1	10N/34W-14E5
8N/34W-16C3	9N/34W-8H1	10N/34W-20H3
8N/34W-16C4	9N/34W-9R1	10N/34W-24K1
8N/34W-16F1	9N/34W-34P1	10N/34W-24K3
8N/34W-16G3	10N/25W-19J2*	10N/34W-26H2
8N/34W-17E1	10N/25W-19P2	10N/34W-29N2
8N/34W-17H1	10N/25W-19P3	10N/35W-5P2
8N/34W-17K2	10N/25W-19P4	10N/35W-7E5
8N/34W-17Q1	10N/25W-21Q2	10N/35W-9E5
8N/34W-21A1	10N/25W-23H1	10N/35W-9F1
8N/34W-23B1	10N/25W-32N3	10N/35W-9N2
8N/34W-24E1	10N/26W-7L2	10N/35W-11E4
8N/35W-12M1	10N/26W-17R2	10N/35W-14P1
9N/24W-19D1 *	10N/26W-20M1*	10N/35W-18F2
9N/24W-32C1 (currently obstructed)	10N/26W-20P1	10N/35W-21B1
9N/24W-32C4	10N/26W-22N2*	10N/35W-23M2
9N/24W-33M1	10N/26W-34N1	10N/35W-24B1
9N/25W-2B1	10N/26W-34N2	10N/35W-24Q1
9N/25W-3B1	10N/26W-34N3	10N/35W-35J2
9N/25W-3B2	10N/26W-34N4	10N/36W-12P1
9N/25W-3B3	10N/32W-19M2	11N/34W-30Q2
9N/25W-3B4	10N/33W-7M1	11N/34W-29R2
9N/25W-11R2	10N/33W-7R1	11N/34W-33J1
9N/25W-28R1	10N/33W-7R6	11N/35W-19E3
9N/26W-1F3	10N/33W-16L1	11N/35W-20E1
9N/26W-2P2	10N/33W-18H1	11N/35W-25F3
9N/32W-6D1	10N/33W-19B1	11N/35W-26M3
9N/32W-16L1	10N/33W-19K1	11N/35W-28F1
9N/32W-17G1	10N/33W-20H1	11N/35W-29E2
9N/32W-22D1	10N/33W-21P1	11N/35W-28M1
9N/32W-23K1	10N/33W-26N1	11N/35W-33G2

Single asterisk (\*) for monitoring wells in List A-1 sampled biannually (March and September) to meet CASGEM requirements.

Mr. Thomas D. Fayram, Deputy Director- Santa Barbara County Water Agency

List A-2: Groundwater Wells Measured Annually (September) Page 1 of 1

Santa Barbara County Water Agency

USGS (updated 07/16/2013 by M.E. Melchiorson)

6N/29W-5A1*		7N/35W-26F4	W Valley: Jordan Farm
6N/32W-2Q1*		7N/35W-27C1	Ocean Ave & Renwick
6N/34W-6C4	E of San Pasqual Rd	7N/35W-27F1	E. of So. VAFB entrance
7N/30W-16B1*		7N/35W-27H5	
7N/31W-22A3*		7N/35W-27J1	South VAFB nr NASA
7N/31W-35K4*		8N/32W-28P4*	
7N/33W-16G5	Mid Santa Rita Valley	8N/33W-13Q1*	
7N/33W-17M1	Upper Cebada Canyon	8N/33W-22K3*	
7N/33W-19D1	Lower Cebada Canyon	8N/34W-14L1*	
7N/33W-20G1	W of Tularosa Road	9N/24W-19D1*	
7N/33W-21G2	Mid Santa Rita Valley	9N/34W-6C1	Laguna Sanitation Yard
7N/33W-21N1	W Santa Rita Valley	10N/25W-19J2*	
7N/33W-28D3	W Santa Rita Valley	10N/26W-20M1*	
7N/34W-9H5	Vandnbrg Village CSD	10N/26W-22N2*	
7N/34W-9H6	Vandnbrg Village CSD	10N/34W-6N3	
7N/34W-12E1	N of Mission Hills	10N/34W-29N2	Taylor Residence
7N/34W-14F4	Mission Hills CSD	10N/35W-5P2	W. end of Thornberry
7N/34W-14L1	Mission Hills CSD	10N/35W-7E5	North of 18F2 - Gamble
7N/34W-15D1	Vandnbrg Village CSD	10N/35W-9E5	Guadalupe City Well
7N/34W-15D2	Vandnbrg Village CSD	10N/35W-9F1	Guadalupe: Waller Seed
7N/34W-15P2	Uplands E of Hwy 1	10N/35W-9N2	SW Main St - Hwy 166
7N/34W-20K4	USPrison E of Floradale	10N/35W-11E4	Silva Farm N of Hwy 166
7N/34W-24N1	Purisima Mission nr 246	10N/35W-14P1	N of Brown Road
7N/34W-26H3	Eastern Lompoc Valley	10N/35W-18F2	SW from Guadalupe
7N/34W-27G6	E of North A Street	11N/35W-20E1	Oso Flaco Lake Road
7N/34W-30L10	SW cor Central & Leege	10N/35W-21B1	Mahoney Bros Farm
7N/34W-35K9	Eastern Lompoc Valley	10N/35W-23M2	S of Brown Road
7N/35W-22M1	W of VAFB entrance N	10N/35W-24B1	SW Jct Ray & Brown rd
7N/35W-17M1	Surf (near RR xing)	10N/35W-24Q1	Ex B&W feedlot well
7N/35W-17Q6	Surf (old barrier bridge)	10N/35W-35J2	Field E of Hwy 1
7N/35W-21G2	W of 22M1 in field	10N/36W-12P1	E of Guadalupe Dunes
7N/35W-22J1	W Valley: Jordan Farm	11N/35W-19E3	Mike Mills
7N/35W-23B2	N of SY River on VAFB	11N/35W-25F3	Division @ Bonita Road
7N/35W-23E2	W Valley: Jordan Farm	11N/35W-26M3	O Flaco Rd E of Hwy 1
7N/35W-24J4	At N end of Douglas Ave	11N/35W-28F1	Hwy 1 S of O Flaco Rd
7N/35W-24K5	DeWolf Ave: Henning	11N/35W-28M1	E of Guadalupe dunes
7N/35W-25F6	NW of DeWolf & Central	11N/35W-29E2	Oso Flaco next to RVR
7N/35W-25F7	NW of DeWolf & Central	11N/35W-33G2	

Single asterisk (\*) for monitoring wells in List A-2 sampled biannually (March and September) to meet CASGEM requirements.

List B: Groundwater Quality Sampling Page 1 of 1

Santa Barbara County Water Agency

USGS (updated 07/16/2013 by M.E. Melchiorson)

**July Groundwater**

7N/30W-33M1  
7N/31W-35K4 (added WY14)  
7N/33W-27G1  
8N/32W-30E6  
8N/33W-22K3 (added WY14)  
9N/24W-33M1  
9N/25W-3F1  
9N/33W-2A7  
9N/33W-10M1, Bucio  
9N/34W-3A2  
10N/25W-21Q2 (Kidds)  
10N/25W-34N1  
10N/26W-20M1  
10N/33W-19K1 (alternate for 10N/33W-30G1)  
10N/33W-20H1  
10N/33W-22N3  
10N/33W-30G1  
10N/34W-4R2  
10N/34W-14E4  
10N/34W-14E5 (alternate for 14E4)  
10N/34W-29N1  
10N/35W-14D3

**TOTAL – 19 Samples**

**August Groundwater (Lompoc)**

7N/34W-27P5\*\*  
7N/35W-21G2\*\*  
7N/35W-26F4\*\*  
7N/35W-27F1\*\*

**TOTAL – 4 Samples**

**November Groundwater (Guadalupe Dunes)**

10N/36W-2Q1\*\*\*  
10N/36W-2Q3\*\*\*  
10N/36W-2Q4\*\*\*  
10N/36W-2Q7\*\*\*  
11N/36W-35J2\*\*\*  
11N/36W-35J3\*\*\*  
11N/36W-35J4\*\*\*  
11N/36W-35J5\*\*\*

**TOTAL – 8 Samples**

**GRAND TOTAL – 31 groundwater samples**

Wells will be selected to replace discontinued monitoring sites as needed.

**DISCONTINUED WELLS FY13**  
**Santa Barbara County Water Agency**  
**USGS (updated 07/16/2013 by M.E. Melchiorson)**

Discontinued Wells from List A-1

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6N/30W-9N1	7N/34W-9H5	10N/26W-18F1
7N/30W-29N2	7N/34W-9H6	10N/27W-11A1
7N/33W-27J1	7N/35W-23J5	10N/33W-18G1
7N/33W-30B2	9N/25W-13B1	10N/33W-30M2

Discontinued Wells from List A-2

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None

Discontinued Wells from List B

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- 9N/33W-17B1, Addamo (July Groundwater List)
- 7N/35W-17Q6 (collapsed) (August Groundwater List)
- 7N/35W-26F5 (changed name to 26F4) (August Groundwater List)

**Mr. Thomas D. Fayram, Deputy Director- Santa Barbara County Water Agency**

List C

Chemical Constituents  
(mg/L or as indicated)

Dissolved boron ( $\mu\text{g/L}$ )	Dissolved solids (sum)
Dissolved calcium	Sodium adsorption ratio
Dissolved chloride	Percent sodium
Dissolved fluoride	Total alkalinity ( $\text{CaCO}_3$ )
Dissolved iron ( $\mu\text{g/L}$ )	Total hardness ( $\text{CaCO}_3$ )
Dissolved manganese ( $\mu\text{g/L}$ )	Temperature $^{\circ}\text{C}$
Dissolved magnesium	pH
Dissolved nitrogen (nitrate + nitrite)	Specific conductance (microsiemens)
Dissolved orthophosphate ( $\text{PO}_4$ )	
Dissolved orthophosphorus (P)	
Dissolved potassium	
Dissolved silica	
Dissolved sodium	
Dissolved sulfate	

Schedules used: 101, 117

Lab Codes used: 27

Additional analysis for monitoring wells noted by a double asterisk (\*\*) in List B includes: Lab Codes as 1202, Iodide and 1786 as Barium

Triple asterisk (\*\*\*) for lab code 1246 as Bromide.