Attachment A

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) 278-3026 Fax: (916) 278-3045
http://water.wr.usgs.gov

IN REPLY REFER TO:

August 19, 2008

Mr. Thomas D. Fayram, Deputy Director
Santa Barbara County Public Works
Water Resources Division
123 East Anapamu Street
Santa Barbara, California 93101

Dear Mr. Fayram:

This letter confirms discussions between Santa Barbara County Public Works, Water Resources Division (County) and U.S. Geological Survey (USGS) staffs, concerning the cooperative water resources program for the period November 1, 2008 to October 31, 2009

Changes to the program include the consolidation of the Santa Barbara County Flood Control and Water Conservation District program with the Santa Barbara County Water Agency program. The agency's new title is now Santa Barbara County Public Works, Water Resources Division. There has been an increase to the cost of the Ground Water Monitoring, Seawater Encroachment sites Guadalupe (an increase of $750) and Surf (an increase of $850) to cover iodide, bromide, and barium sampling. These samples had been done, but had not been added to the program in past years. One water-quality well, 9N/33W-10M(?), was added to July Groundwater in LIST B. A cost of $1,730 was added to the total water-quality cost for this sample. Station 11128500 Santa Ynez River at Solvang was removed from the Santa Ynez River Fish Management Plan and the accociated costs were placed in Santa Barbara County Public Works, Water Resources Division. A "Discontinued" listing was added to all the water level and QW lists per the request of the County. Hilton Creek near Santa Ynez 11125600, has been increased from a limited range station of 20 cfs to 50 cfs. Additionally, continuous dissolved oxygen was added to Santa Ynez River near Santa Ynez 11126000, and the cost increased to cover standard O&M of this water-quality record.

Mr. Thomas D. Fayram, Deputy Director- Santa Barbara County PW, WRD

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

I. Santa Barbara County Public Works, Water Resources Division

A. *Surface Water Streamgaging Stations:*

Operation and Maintenance

Station number and name	PW, WRD Funds	USGS Funds	Total Funds
11119500 Carpinteria Creek near Carpinteria	$ 12,950	$ 8,650	$ 21,600
11119750 Mission Creek near Mission Street at Santa Barbara	12,950	8,650	21,600
11119940 Maria Ygnacio Creek at University Drive near Goleta	12,950	8,650	21,600
11120000 Atascadero Creek near Goleta	12,950	8,650	21,600
11120500 San Jose Creek near Goleta	12,950	8,650	21,600
11123500 Santa Ynez River below Los Laureles Canyon near Santa Barbara	12,950	8,650	21,600
11124500 Santa Cruz Creek near Santa Ynez	12,950	8,650	21,600
11125500 Lake Cachuma near Santa Ynez - review and publish USBR furnished record	2,550	-0-	2,550
11126000 Santa Ynez River near Santa Ynez *	13,450	-0-	13,450
11128250 Alamo Pintado Creek near Solvang	12,950	8,650	21,600
-weekly discharge measurements	2,550	-0-	2,550
11128300 Alisal Reservoir near Solvang	7,550	-0-	7,550
11128500 Santa Ynez River at Solvang**	12,950	-0-	12,950
11129800 Zaca Creek near Buellton	12,950	8,650	21,600
11132500 Salsipuedes Creek near Lompoc	12,950	8,650	21,600
11134000 Santa Ynez River at "H" Street near Lompoc - operation and maintenance ***	7,200	-0-	7,200
11135800 San Antonio Creek at Los Alamos	12,950	8,650	21,600
11136800 Cuyama River below Buckhorn Canyon	12,950	8,650	21,600
11138500 Sisquoc River near Sisquoc	21,600	-0-	21,600
11141050 Orcutt Creek near Orcutt	12,950	8,650	21,600
SW Streamgaging Stations Subtotal	**$ 236,200**	**$ 112,450**	**$ 348,650**

* Low-water monitoring station (discharge <250 ft^3/s) operated during October-November, and April-September each year.

** Total cost shared between Santa Barbara County Public Works, Water Resources Division, and the U.S. Bureau of Reclamation.

*** Total cost shared equally between Santa Barbara County Public Works, Water Resources Division, the U.S. Bureau of Reclamation, and the City of Lompoc.

B. ***Santa Ynez River Fish Management Plan:***

Station number and name	PW, WRD Funds	USGS Funds	Total Funds
11125600 Hilton Creek near Santa Ynez			
Operation & Maintenance (annual)			
- streamflow (limited range less than 50 cfs, or safely wadeable conditions)	12,950	-0-	12,950
- Specific conductance & temperature (complete year)	9,450	-0-	9,450
11126000 Santa Ynez River near Santa Ynez			
- weekly discharge measurements	2,550	-0-	2,550
- Specific conductance, temperature dissolved oxygen	13,100	-0-	13,100
11126400 Santa Ynez River at Highway 154 near Santa Ynez: includes:	22,000	-0-	22,000
- Specific conductance, temperature dissolved oxygen			
11128500 Santa Ynez River at Solvang			
- weekly discharge measurements	-0-	-0-	-0-
- Specific conductance, temperature dissolved oxygen ****	-0-	-0-	-0-
11133000 Santa Ynez River at Narrows near Lompoc			
- Specific conductance & temperature)****	3,150	-0-	3,150
Santa Ynez River FMP Subtotal	**$ 63,200**	**$ -0-**	**$ 63,200**

**** Additional funds for this work are identified in the Surface Water quality monitoring program in Section D below.

C. ***Ground Water Monitoring Program:***

1. **Water-level monitoring**

The USGS will conduct monitoring of approximately 280 wells in the spring and 60 wells in the fall as part of the County 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. Santa Barbara County 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.

Mr. Thomas D. Fayram, Deputy Director- Santa Barbara County PW, WRD

C. ***Ground Water Monitoring Program (continued):***

2. **Water-quality monitoring**

   In 1981, a ground-water quality network was reestablished in selected basins of Santa Barbara County (List B). Water samples from 17 wells in the network will be collected annually, during the pumping season (in July), and analyzed for the constituents shown in List C.

3. **Seawater encroachment monitoring**

   Four water samples from four different water-bearing zones from each of the two well groups known as Guadalupe #1 and Guadalupe #2 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 single asterisks 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 County as they become available.

   A total of 28 water quality monitoring wells will be sampled and analyzed annually for the constituents noted on List C.

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

1. Stream-quality stations - Water samples will be collected on a monthly basis, as flow permits, at the following stations. 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
   11126000 Santa Ynez River near Santa Ynez
   11128500 Santa Ynez River at Solvang
   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. Water samples will be obtained biannually (about April and August) at Green Canyon Creek near Guadalupe (345727120375401) and analyzed for the constituents on List C, plus pesticides (List D).
3. Continuous temperature recording and specific conductance at the three stations: Santa Ynez River near Santa Ynez, Santa Ynez River at Narrows near Lompoc, and Santa Ynez River at Solvang.

Mr. Thomas D. Fayram, Deputy Director- Santa Barbara County PW, WRD

Following is a summary of the work and associated costs for the Santa Barbara County Public Works, Water Resources Division during the period November 1, 2008 to October 31, 2009:

	PW,WRD Funds	USGS Funds	Total Funds
A. ***Surface Water Streamgaging Stations***			
Operation and Maintenance	$ 236,200	$ 112,450	$ 348,650
B. ***Santa Ynez River Fish Management Plan***			
Operation and Maintenance	63,200	-0-	63,200
C. ***Ground Water Monitoring***			
1. Water-levels	37,050	-0-	37,050
2. Water-quality	17,950	10,800	28,750
3. Seawater encroachment			
- Guadalupe	8,750	5,350	14,100
- Surf	4,950	2,650	7,600
D. ***Surface Water Quality Monitoring***			
1. Stream-quality stations	23,500	15,600	39,100
2. Green Canyon Creek	10,850	-0-	10,850
3. Continuous temperature and specific conductance	19,450	7,800	27,250
Total	**$ 421,900**	**$ 154,650**	**$ 576,550**

Total cost of the proposed program is $ 576,550.00. Cost to County will be $ 421,900.00 and subject to the availability of Federal matching funds, the USGS will provide $ 154,650.00.

Enclosed are four originals of a Joint Funding Agreement (JFA) for your approval. Work performed with funds from this agreement will be conducted on a fixed-price basis. If you are in agreement with this proposed program, please return three signed JFA's to our office. The fourth JFA is for your records, pending USGS approval. Upon approval, a fully executed JFA will be forwarded for your records.

Mr. Thomas D. Fayram, Deputy Director- Santa Barbara County PW, WRD

The USGS is required to have an agreement in place prior to any work being performed on a project. We request that the JFA be returned prior to November 1, 2008. If a JFA is not received by November 1, 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 Janee Hiett, in our Sacramento Office, at (916) 278-3001.

Sincerely,

Donna Schiffer

Donna M. Schiffer
Acting Director for
Michael V. Shulters
Director, USGS California Water Science Center

Enclosures

cc: Matthew Scrudato, USGS CAWSC

Mr. Thomas D. Fayram, Deputy Director- Santa Barbara County PW, WRD

List A-1

Ground Water Wells Measured Annually
Santa Barbara County Public Works
Water Resources Division
USGS (updated 7/8/08 by M.C. Scrudato)

4N/28W–2P3
4N/28W-16J5
4N/30W-1G1
5N/29W-1C1
5N/29W-31C1
5N/30W-19E1
5N/30W-28R1
5N/30W-28R2
5N/30W-30N2
6N/29W-5A1
6N/29W-6F1
6N/29W-6G1
6N/29W-7L1
6N/29W-8P1
6N/29W-8P2
6N/30W-1R3
6N/30W-7G5
6N/30W-7G6
6N/30W-9N1
6N/30W-11G1
6N/31W-1P2
6N/31W-1P3
6N/31W-2K1
6N/31W-3A1
6N/31W-4A1
6N/31W-7F1
6N/31W-10F1
6N/31W-11D4
6N/31W-13D1
6N/31W-17F1
6N/31W-17F3
6N/32W-2Q1
6N/32W-6K1
6N/32W-16P3
6N/32W-18H1
6N/33W-8R1
6N/33W-8J3
6N/33W-9M1
6N/33W-11L4
6N/34W-6C4
6N/34W-12C5
6N/36W-1K1
6N/36W-26C1
6N/36W-26G1
7N/29W-29R1
7N/29W-29R2
7N/30W-16B1
7N/30W-19H1
7N/30W-22E1
7N/30W-22E2
7N/30W-24Q1
7N/30W-25Q2
7N/30W-27H1
7N/30W-29D1
7N/30W-29N2
7N/30W-30M1
7N/30W-32R1
7N/30W-33M1
7N/30W-35R1
7N/30W-36N2
7N/30W-36N3
7N/31W-22A3
7N/31W-23P1
7N/31W-34M1
7N/31W-35K4
7N/31W-36L2
7N/32W-7B1
7N/32W-31M1
7N/33W-16G5
7N/33W-17M1
7N/33W-17N2
7N/33W-19D1
7N/33W-20G1
7N/33W-21G2
7N/33W-21N1
7N/33W-27G1
7N/33W-27J1
7N/33W-28D3
7N/33W-30B2

Mr. Thomas D. Fayram, Deputy Director- Santa Barbara County PW, WRD

List A-1 – Continued

Ground Water Wells Measured Annually
Santa Barbara County Public Works
Water Resources Division
USGS (updated 7/8/08 by M.C. Scrudato)

7N/33W-36J1
7N/34W-9H5
7N/34W-9H6
7N/34W-12E1
7N/34W-14F4
7N/34W-14L1
7N/34W-15D1
7N/34W-15D2
7N/34W-15E1
7N/34W-15P2
7N/34W-20K4
7N/34W-22J6
7N/34W-24N1
7N/34W-26H3
7N/34W-27G6
7N/34W-29E4
7N/34W-29N6
7N/34W-29N7
7N/34W-30L10
7N/34W-31R2
7N/34W-32H2
7N/34W-35K9
7N/35W-15M1
7N/35W-17M1
7N/35W-17Q6
7N/35W-18H1
7N/35W-18J2
7N/35W-21G2
7N/35W-22J1
7N/35W-22M1
7N/35W-23B2
7N/35W-23E2
7N/35W-23J5
7N/35W-23Q2
7N/35W-23Q3
7N/35W-23Q4
7N/35W-24J4
7N/35W-24K5
7N/35W-24N3
7N/35W-25F6
7N/35W-25F7
7N/35W-26F4
7N/35W-26L1
7N/35W-26L2
7N/35W-26L4
7N/35W-27C1
7N/35W-27F1
7N/35W-27H1
7N/35W-27P1
7N/35W-30G1
7N/35W-31J2
7N/35W-32N1
7N/35W-35A3
8N/30W-30R1
8N/31W-22J1
8N/31W-22J2
8N/31W-25K1
8N/31W-25Q1
8N/31W-36H1
8N/32W-25D1
8N/32W-28P1
8N/32W-28P4
8N/32W-29L2
8N/32W-30D1
8N/32W-30E5

3 neverland not added to letter – courtesy measurement if granted access: 31D1, 30N1, and 25Q2

Mr. Thomas D. Fayram, Deputy Director- Santa Barbara County PW, WRD

List A-1 – Continued

Ground Water Wells Measured Annually
Santa Barbara County Public Works
Water Resources Division
USGS (updated 7/8/08 by M.C. Scrudato)

8N/33W-13C1
8N/33W-13Q1
8N/33W-19K1
8N/33W-20Q2
8N/33W-22K3
8N/33W-24B3
8N/33W-24C1
8N/33W-25B5
8N/34W-2M1
8N/34W-9K1
8N/34W-14L1
8N/34W-15F2
8N/34W-15F4
8N/34W-16C1
8N/34W-16C2
8N/34W-16C3
8N/34W-16C4
8N/34W-16F1
8N/34W-16G3
8N/34W-17E1
8N/34W-17H1
8N/34W-17K2
8N/34W-17Q1
8N/34W-21A1
8N/34W-23B1
8N/34W-24E1
8N/35W-12M1
9N/24W-32C1
9N/24W-33M1
9N/25W-13B1
9N/26W-1F3
9N/32W-6D1
9N/32W-16L1
9N/32W-17G1
9N/32W-22D1
9N/32W-23K1
9N/32W-33F1
9N/32W-33M1
9N/32W-33M2
9N/33W-2A7
9N/33W-6G1
9N/33W-12C1
9N/33W-12R2
9N/33W-24L1
9N/34W-3A2
9N/34W-3F10
9N/34W-6C1
9N/34W-8H1
9N/34W-9R1
9N/34W-34P1
10N/26W-18F1
10N/26W-20M1
10N/26W-20P1
10N/27W-11A1
10N/32W-19M2

Mr. Thomas D. Fayram, Deputy Director- Santa Barbara County PW, WRD

List A-1 - Continued

Ground Water Wells Measured Annually
Santa Barbara County Public Works
Water Resources Division
USGS (updated 07/08/08 by M.C. Scrudato)

10N/33W-7M1
10N/33W-7R1
10N/33W-7R6
10N/33W-18G1
10N/33W-19B1
10N/33W-19K1
10N/33W-20H1
10N/33W-21P1
10N/33W-26N1
10N/33W-27G1
10N/33W-28A1
10N/33W-28F2
10N/33W-29F1
10N/33W-30G1
10N/33W-30M2
10N/33W-31Q2
10N/33W-34E1
10N/33W-35B1
10N/34W-6N1
10N/34W-9D1
10N/34W-13C1
10N/34W-13G1
10N/34W-13H1
10N/34W-13J1
10N/34W-14E4
10N/34W-14E5
10N/34W-20H3
10N/34W-24K1
10N/34W-24K3
10N/34W-26H2
10N/34W-29N2
10N/35W-5P2
10N/35W-7E5
10N/35W-9E5
10N/35W-9F1
10N/35W-9N2
10N/35W-11E4
10N/35W-14P1
10N/35W-18F2
10N/35W-21B1
10N/35W-23M2
10N/35W-24B1
10N/35W-24Q1
10N/35W-35J2
10N/36W-12P1
11N/34W-30Q2
11N/34W-29R2
11N/34W-33J1
11N/35W-20E1
11N/35W-25F3
11N/35W-26M3
11N/35W-28F2
11N/35W-29E2
11N/35W-28M1
11N/35W-33G1

Mr. Thomas D. Fayram, Deputy Director- Santa Barbara County PW, WRD

List A-1 - Continued

Ground Water Wells Measured Annually
Santa Barbara County Public Works
Water Resources Division
USGS (updated 07/08/08 by M.C. Scrudato)

DISCONTINUED WELLS

6N/29W-9J1 (FY07)
7N/33W-16G3 (FY07)
7N/33W-36J2 (FY07)
7N/34W-15P1 (FY05)
7N/35W-13N2 (FY07)
7N/35W-25F5 (FY07)
8N/33W-20R1 (FY05)
9N/25W-27C1 (FY08)
9N/32W-7A1 (FY07)
9N/32W-8N1 (FY07)
9N/33W-5A1 (FY07)
10N/25W-18J2 (FY08)
10N/25W-21E1 (FY05)
10N/25W-21G1 (FY07)
10N/25W-23E1 (FY07)
10N/25W-21F1 (FY08)
10N/25W-21G1 (FY07)
10N/25W-23E1 (FY07)
10N/25W-27L2 (FY07)
10N/25W-29K2 (FY07)
10N/25W-30F1 (FY08)
10N/26W-4R1 (FY08)
10N/26W-9H1 (FY08)
10N/26W-15N1 (FY07)
10N/26W-16Q1 (FY08)
10N/26W-21A1 (FY08)
10N/26W-22Q1 (FY08)
10N/32W-19M1 (FY05)
10N/33W-16N1 (FY07)
10N/33W-16N2 (FY07)
10N/33W-28F1 (FY08)
11N/34W-30Q1 (FY07)

Mr. Thomas D. Fayram, Deputy Director- Santa Barbara County PW, WRD

List A-2

Ground Water Wells Measured Annually (September)
Santa Barbara County Public Works
Water Resources Division
USGS (updated 7/8/08 by M.C. Scrudato)

6N/34W-6C4	E of San Pasqual Rd
7N/33W-16G5	Mid Santa Rita Valley
7N/33W-17M1	Upper Cebada Canyon
7N/33W-19D1	Lower Cebada Canyon
7N/33W-20G1	W of Tularosa Road
7N/33W-21G2	Mid Santa Rita Valley
7N/33W-21N1	W Santa Rita Valley
7N/33W-28D3	W Santa Rita Valley
7N/34W-9H5	Vandnbrg Village CSD
7N/34W-9H6	Vandnbrg Village CSD
7N/34W-12E1	N of Mission Hills
7N/34W-14F4	Mission Hills CSD
7N/34W-14L1	Mission Hills CSD
7N/34W-15D1	Vandnbrg Village CSD
7N/34W-15D2	Vandnbrg Village CSD
7N/34W-15P2	Uplands E of Hyw 1
7N/34W-20K4	USPrison E of Floradale
7N/34W-24N1	Purisima Mission nr 246
7N/34W-26H3	Eastern Lompoc Valley
7N/34W-27G6	E of North A Street
7N/34W-30L10	SW cor Central & Leege
7N/34W-35K9	Eastern Lompoc Valley
7N/35W-22M1	W of VAFB entrance N
7N/35W-17M1	Surf (near RR xing)
7N/35W-17Q6	Surf (old barrier bridge)
7N/35W-21G2	W of 22M1 in field
7N/35W-22J1	W Valley: Jordan Farm
7N/35W-23B2	N of SY River on VAFB
7N/35W-23E2	W Valley: Jordan Farm
7N/35W-24J4	At N end of Douglas Ave
7N/35W-24K5	DeWolf Ave: Henning
7N/35W-25F6	NW of DeWolf & Central
7N/35W-25F7	NW of DeWolf & Central
7N/35W-26F4	W Valley: Jordan Farm
7N/35W-27C1	Ocean Ave & Renwick
7N/35W-27F1	E. of So. VAFB entrance
7N/35W-27H1	E. of So. VAFB entrance
9N/34W-6C1	Laguna Sanitation Yard
10N/34W-6N1	E of Bonita School Rd
10N/34W-29N2	Taylor Residence
10N/35W-5P2	W. end of Thornberry
10N/35W-7E5	North of 18F2 - Gamble
10N/35W-9E5	Guadalupe City Well
10N/35W-9F1	Guadalupe: Waller Seed
10N/35W-9N2	SW Main St - Hyw166
10N/35W-11E4	Silva Farm N of Hyw 166
10N/35W-14P1	N of Brown Road
10N/35W-18F2	SW from Guadalupe
11N/35W-20E1	Oso Flaco Lake Road
10N/35W-21B1	Mahoney Bros Farm
10N/35W-23M2	S of Brown Road
10N/35W-24B1	SW Jct Ray & Brown rd
10N/35W-24Q1	Ex B&W feedlot well
11N/35W-25F3	Division @ Bonita Road
11N/35W-26M3	O Flaco Rd E of hwy 1
11N/35W-28F2	Hwy 1 S of O Flaco Rd
11N/35W-28M1	E of Guadalupe dunes
11N/35W-29E2	Oso Flaco next to RVR
11N/35W-33G1	Division St @ RR Xing
10N/35W-35J2	Field E of Hyw 1
10N/36W-12P1	E of Guadalupe dunes

DISCONTINUED

7N/33W-16G3 (FY07)
7N/33W-16G4 (FY07)
7N/35W-13N2 (FY07)
7N/35W-25F5 (FY07)

Mr. Thomas D. Fayram, Deputy Director- Santa Barbara County PW, WRD

List B

Ground-Water Quality Sampling
Santa Barbara County Public Works
Water Resources Division
(Updated 7/17/08 by M.C. Scrudato)

July Groundwater

7N/30W-33M1
7N/33W-27G1
8N/32W-30E6
9N/24W-33M1
9N/33W-2A7
9M/33W-10M(?), Bucio
9N/33W-17B(?), Addamo (alternate)
9N/34W-3A2
10N/25W-21Q2 (Kidds)
10N/25W-34N1
10N/26W-24J4
10N/33W-20H1
10N/33W-22N3
10N/33W-30G1
10N/34W-4R2
10N/34W-14E4 (alternate)
10N/34W-14E5
10N/34W-29N1
10N/35W-14D3

TOTAL – 17 Samples

DISCONTINUED

10N/25W-20H2
10N/25W-20H3 (alternate)
10N/26W-9H1(alternate)
10N/26W-10M1
10N/26W-15B1(alternate)
10N/26W-16R1 (alternate)
10N/26W-22Q2

August Groundwater (Lompoc)

7N/34W-27P5*
7N/35W-17Q6*
7N/35W-21G2*
7N/35W-26F5*

TOTAL – 4 Samples

Mr. Thomas D. Fayram, Deputy Director- Santa Barbara County PW, WRD

List B Continued

Ground-Water Quality Sampling
Santa Barbara County Public Works
Water Resources Division
(Updated 7/8/08 by M.C. Scrudato)

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 – 29 groundwater samples

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

Mr. Thomas D. Fayram, Deputy Director- Santa Barbara County PW, WRD

List C

Chemical Constituents
(mg/L or as indicated)

Dissolved boron (µg/L)

Dissolved calcium

Dissolved chloride

Dissolved fluoride

Dissolved iron (µg/L)

Dissolved manganese (µg/L)

Dissolved magnesium

Dissolved nitrogen (nitrate + nitrite)

Dissolved orthophosphate (PO_4)

Dissolved orthophosphorus (P)

Dissolved potassium

Dissolved silica

Dissolved sodium

Dissolved sulfate

Dissolved solids (sum)

Sodium adsorption ratio

Percent sodium

Total alkalinity ($CaCO_3$)

Total hardness ($CaCO_3$)

Temperature °C

pH

Specific conductance (microsiemens)

Schedules used: 101, 117

Lab Codes used: 27

Additional analysis for monitoring wells noted by a single asterisk in List B includes: Lab Codes as 1202, Iodine and 1786 as Barium

Double asterisk for lab code 1246 as Bromide.

Mr. Thomas D. Fayram, Deputy Director- Santa Barbara County PW, WRD

List D

Organic Chemical Constituents (pesticides)
(ug/L and ug/kg)

Schedule 1389

Organonitrogen pesticides
(Triazines)

Alachlor
Ametryn
Atrazine
Bromacil
Butachlor
Butylate
Carboxin
Cyanazine
Deethylatrazine
Deisopropylatrazine
Diphenamid
Hexazinone
Metolachlor
Metribuzin
Prometon
Prometryn
Simazine
Simotryn
Terbacil
Terbuthylazine (surrogate) 0.1 pct
Trifluralin
Vernolate

Schedule 1319

Organophosphate
pesticides

Carbophenothian
Chlorpyrifog
Diazinon
Disulfoton
Mthion
Fonofoe
Isofenphos (surrogate) 0.1%
Malathion
Parathion
Parathion-methyl
Phorate
S,S,S-
Tributylphoaphorotrithioate

Mr. Thomas D. Fayram, Deputy Director- Santa Barbara County PW, WRD

List D - Continued

Schedule 5504

Organochlorine pesticides + gross PCB'S 7 PCN'S, bed material

Aldrin
Chlordane
Dieldrin
Endrin
Heptachlor
Heptachlor opoxide
Isodrin (surrogate) 0.1 pct
Lindane
Mirex
Perthane
Polychlorinated biphenyls
Polychlorinated naphthalenes
Toxaphene
alpha-Endogulfan
p,p' -DDD
p,p' -DDE
p,p' -DDT
p,p' -Methoxychlor