WELL WATER DATA

	Location	State Well Number / Owner Well Number	Depth to Water (ft bgs)	Completion Depth	Approximate Distance From Panoche Energy Center Site (ft)	Direction from Panoche Energy Center Site	Sample Date	General						Chemistry (mg/L)																																		Remarks	Reference
																		Cations										Anions										Other						Trace Chemicals (ug/L)					
								Conductivity (uS/cm)	Units	pH	Units	Total Dissolved Solids (ppm)	Units	Total Alkalinity (CaCO3)	Units	Hardness (CaCO3)	Units	Calcium (Ca)	Units	Magnesium (Mg)	Units	Sodium (Na)	Units	Potassium (K)	Units	Bicarbonate (HCO3)	Units	Carbonate (CO3)	Units	Sulfate (SO4)	Units	Chloride	Units	Nitrate (NO3)	Units	Silica (SiO2)	Units	Fluoride (F)	Units	Arsenic	Units	Boron	Units		
A	Employees Enterprises, M-2	15/13-5N1/15S13E05N01M	534.8	548 - 1544 ft	500	S	8/15/1951	2157	Kx106	7.7		1500*	ppm	176	mg/L	120	ppm					462.0	ppm			212	ppm			*780	ppm	125.0	ppm									3.40	ppm	Clear; TDS is assumed to be 20-150 mg/L higher than value shown b/c original data was reported as "sum of determined constuents" which does not include nitrate and silica; percent sodium = 89; total alkalinity data from State of California Department of Water Resources, San Joaquin District, Mineral Analyses of Ground Water	Ground-Water Conditions in the Mendota-Huron Area, Fresno and Kings Counties, California, Geological Survey Water-Supply Paper 1360 G
		15S13E05N01M		548 - 1544 ft	500	S	8/12/1952	2160		7.9		1500*	ppm	169	mg/L	134	mg/L	27.0	mg/L	16.00	mg/L	450.0	mg/L	4.10	mg/L	212	ppm			721.0	mg/L	117.0	mg/L	1.50	mg/L	42.0	mg/L	0.60	mg/L			2.80	mg/L	Well data for 15/13-5N1 in Ground-Water Conditions in the Mendota-Huron Area, Fresno and Kings Counties, California, Geological Survey Water-Supply Paper 1360 G - appears to be same well based on overlapping datasets	State of California Department of Water Resources, San Joaquin District, Mineral Analyses of Ground Water
B		15S13E05M01M			750	N	8/15/1951	2089		7.7				184	mg/L	360	mg/L					352.0	mg/L							830.0	mg/L	100.0	mg/L									3.40	mg/L		State of California Department of Water Resources, San Joaquin District, Mineral Analyses of Ground Water
C		15S13E06J01M			1500	NW	7/16/1968	1880		7.6		1250	mg/L			260	grains?	45.0	mg/L	35.00	mg/L	320.0								640.0	mg/L	88.0	mg/L	4.10	mg/L							2.80	mg/L		State of California Department of Water Resources, San Joaquin District, Mineral Analyses of Ground Water
D		15S13E05D01M			3500	N	8/15/1951	1536		7.7				156	mg/L	75	mg/L					314.0	mg/L							500.0	mg/L	130.0	mg/L									2.40	mg/L		State of California Department of Water Resources, San Joaquin District, Mineral Analyses of Ground Water
E	Cindy Pruett #5-15	15S13E05D02			3500	N	7/7/1995	1300	ds/m			860	mg/L																	420.0	mg/L	54.0	mg/L							0.014	ppb			Table 2-1, Westlands Water District Ground Water Integration Program, Mendota Pool & Canalside Water Quality
F	Employees Enterprises, M-4	15/13-5R1/15S13E05R01M	527.8	591 - 1528 ft	4000	E	8/15/1951	1363	Kx106	8.0		900*	ppm	153	mg/L	170	ppm					242.0	ppm			184	ppm			*490	ppm	55.0	ppm									2.20	ppm	"Do" remark assumed to mean sample was turbid; TDS is assumed to be 20-150 mg/L higher than value shown b/c original data was reported as "sum of determined constuents" which does not include nitrate and silica; percent sodium = 75; total alkalinity data from State of California Department of Water Resources, San Joaquin District, Mineral Analyses of Ground Water	Ground-Water Conditions in the Mendota-Huron Area, Fresno and Kings Counties, California, Geological Survey Water-Supply Paper 1360 G
		15S13E05R01M		591 - 1528 ft	4000	E	8/12/1952			8.2				149	mg/L	198	mg/L	35.0	mg/L	27.00	mg/L	240.0	mg/L	3.70	mg/L					487.0	mg/L	58.0	mg/L	1.30	mg/L	44.0	mg/L	0.50	mg/L			2.10	mg/L	Well data for 15/13-5R1 in Ground-Water Conditions in the Mendota-Huron Area, Fresno and Kings Counties, California, Geological Survey Water-Supply Paper 1360 G - appears to be same well based on overlapping datasets	State of California Department of Water Resources, San Joaquin District, Mineral Analyses of Ground Water
		15S13E05R01M		591 - 1528 ft	4000	E	7/7/1953	1770						159	mg/L	360	mg/L	62.0	mg/L	50.00	mg/L	277.0	mg/L	5.30	mg/L					667.0	mg/L	77.0	mg/L	0.30	mg/L	44.0	mg/L	0.50	mg/L			1.80	mg/L	Well data for 15/13-5R1 in Ground-Water Conditions in the Mendota-Huron Area, Fresno and Kings Counties, California, Geological Survey Water-Supply Paper 1360 G - appears to be same well based on overlapping datasets	State of California Department of Water Resources, San Joaquin District, Mineral Analyses of Ground Water
		15S13E05R01M		591 - 1528 ft	4000	E	6/28/1956	2770								890	mg/L					324.0	mg/L									149.0	mg/L									3.10	mg/L	Well data for 15/13-5R1 in Ground-Water Conditions in the Mendota-Huron Area, Fresno and Kings Counties, California, Geological Survey Water-Supply Paper 1360 G - appears to be same well based on overlapping datasets	State of California Department of Water Resources, San Joaquin District, Mineral Analyses of Ground Water
		15S13E05R01M		591 - 1528 ft	4000	E	7/31/1957	1380								220	mg/L					230.0	mg/L									52.0	mg/L									1.90	mg/L	Well data for 15/13-5R1 in Ground-Water Conditions in the Mendota-Huron Area, Fresno and Kings Counties, California, Geological Survey Water-Supply Paper 1360 G - appears to be same well based on overlapping datasets	State of California Department of Water Resources, San Joaquin District, Mineral Analyses of Ground Water
		15S13E05R01M		591 - 1528 ft	4000	E	6/25/1958	1340		7.5				154	mg/L	240	mg/L	45.0	mg/L	31.00	mg/L	225.0	mg/L	4.80	mg/L					438.0	mg/L	70.0	mg/L	1.30	mg/L	42.0	mg/L	0.50	mg/L			2.30	mg/L	Well data for 15/13-5R1 in Ground-Water Conditions in the Mendota-Huron Area, Fresno and Kings Counties, California, Geological Survey Water-Supply Paper 1360 G - appears to be same well based on overlapping datasets	State of California Department of Water Resources, San Joaquin District, Mineral Analyses of Ground Water
		15S13E05R01M		591 - 1528 ft	4000	E	8/14/1959	1610		8.1				163	mg/L	335	mg/L	58.0	mg/L	46.00	mg/L	242.0	mg/L	4.20	mg/L					570.0	mg/L	68.0	mg/L	4.00	mg/L	42.0	mg/L	0.50	mg/L			2.30	mg/L	Well data for 15/13-5R1 in Ground-Water Conditions in the Mendota-Huron Area, Fresno and Kings Counties, California, Geological Survey Water-Supply Paper 1360 G - appears to be same well based on overlapping datasets	State of California Department of Water Resources, San Joaquin District, Mineral Analyses of Ground Water
		15S13E05R01M		591 - 1528 ft	4000	E	7/19/1960	1460		8.2				143	mg/L	279	mg/L	51.0	mg/L	37.00	mg/L	220.0	mg/L	3.00	mg/L					516.0	mg/L	65.0	mg/L	4.40	mg/L	43.0	mg/L	0.40	mg/L			2.03	mg/L	Well data for 15/13-5R1 in Ground-Water Conditions in the Mendota-Huron Area, Fresno and Kings Counties, California, Geological Survey Water-Supply Paper 1360 G - appears to be same well based on overlapping datasets	State of California Department of Water Resources, San Joaquin District, Mineral Analyses of Ground Water
		15S13E05R01M		591 - 1528 ft	4000	E	10/19/1961	1970		8.4				133	mg/L	385	mg/L	78.0	mg/L	46.00	mg/L	302.0	mg/L	3.20	mg/L					710.0	mg/L	82.0	mg/L	5.10	mg/L	52.0	mg/L	0.60	mg/L			2.70	mg/L	Well data for 15/13-5R1 in Ground-Water Conditions in the Mendota-Huron Area, Fresno and Kings Counties, California, Geological Survey Water-Supply Paper 1360 G - appears to be same well based on overlapping datasets	State of California Department of Water Resources, San Joaquin District, Mineral Analyses of Ground Water
G	Employees Enterprises, M-7	15/13-6N1		520 - 1704 ft	5500	W	8/15/1951	2281	Kx106	7.8		1700*	ppm	191	mg/L	110	ppm					506.0	ppm			230	ppm			*510	ppm	140.0	ppm									3.60	ppm	"Do" remark assumed to mean sample was turbid; TDS is assumed to be 20-150 mg/L higher than value shown b/c original data was reported as "sum of determined constuents" which does not include nitrate and silica; percent sodium = 91; total alkalinity data from State of California Department of Water Resources, San Joaquin District, Mineral Analyses of Ground Water	Ground-Water Conditions in the Mendota-Huron Area, Fresno and Kings Counties, California, Geological Survey Water-Supply Paper 1360 G
		15/13-6N1		520 - 1704 ft	5500	W	8/12/1952	2090		7.9				177	mg/L	87	mg/L	24.0	mg/L	6.60	mg/L	440.0	mg/L	5.40	mg/L					672.0	mg/L	113.0	mg/L	2.00	mg/L	44.0	mg/L	0.50	mg/L			3.90	mg/L	Well data for 15/13-6N1 in Ground-Water Conditions in the Mendota-Huron Area, Fresno and Kings Counties, California, Geological Survey Water-Supply Paper 1360 G - appears to be same well based on overlapping datasets	State of California Department of Water Resources, San Joaquin District, Mineral Analyses of Ground Water
H	Employees Enterprises, M-6	15/13-8N1	p 609.9	639 - 1798 ft	5500	S	8/15/1951	2797	Kx106	7.6		1800*	ppm			300	ppm					644.0	ppm			242	ppm			*1320	ppm	200.0	ppm									4.10	ppm	"Do" remark assumed to mean sample was turbid; TDS is assumed to be 20-150 mg/L higher than value shown b/c original data was reported as "sum of determined constuents" which does not include nitrate and silica; percent sodium = 82	Ground-Water Conditions in the Mendota-Huron Area, Fresno and Kings Counties, California, Geological Survey Water-Supply Paper 1360 G
I	Employees Enterprises, M-10	15/13-9E1		660 -1800 ft	6000	SE	8/15/1951	1601	Kx106	8.1		1100*	ppm			240	ppm					297.0	ppm			202	ppm			*600	ppm	90.0	ppm									2.70	ppm	"Do" remark assumed to mean sample was turbid; TDS assumed to be reported as "sum of determined constuents"; percent sodium = 73	Ground-Water Conditions in the Mendota-Huron Area, Fresno and Kings Counties, California, Geological Survey Water-Supply Paper 1360 G
J	Employees Enterprises 26	15/12-12Q1	p 609	708 - 1820	10000	SW	8/15/1951	2950	Kx106	7.2		1900*	ppm			375	ppm									196	ppm			*130	ppm	205.0	ppm									3.60	ppm	"Do" remark assumed to mean sample was turbid; TDS assumed to be reported as "sum of determined constuents"; percent sodium = 78	Ground-Water Conditions in the Mendota-Huron Area, Fresno and Kings Counties, California, Geological Survey Water-Supply Paper 1360 G
K	Employees Enterprises M-5	15/12-1N1	p 565.2	639 - 1873 ft	10500	W	8/15/1951	3785	Kx106	7.2		2300*	ppm			545	ppm									226	ppm			*1760	ppm	305.0	ppm									5.10	ppm	"Do" remark assumed to mean sample was turbid; TDS is assumed to be 20-150 mg/L higher than value shown b/c original data was reported as "sum of determined constuents" which does not include nitrate and silica; percent sodium = 75	Ground-Water Conditions in the Mendota-Huron Area, Fresno and Kings Counties, California, Geological Survey Water-Supply Paper 1360 G
L	Baker Farming #16 W	15S13E16M01			10750	SE	7/7/1995	1300	ds/m			910	mg/L																	450.0	mg/L	48.0	mg/L							0.011	ppb			Table 2-1, Westlands Water District Ground Water Integration Program, Mendota Pool & Canalside Water Quality
M	Employees Enterprises M-8	15/12-1E1		650 - 1819 ft	11000	NW	8/15/1951	2926	Kx106	7.4		1800*	ppm			345	ppm									218	ppm			*1210	ppm	205.0	ppm									3.40	ppm	"Do" remark assumed to mean sample was turbid; TDS is assumed to be 20-150 mg/L higher than value shown b/c original data was reported as "sum of determined constuents" which does not include nitrate and silica; percent sodium = 79	Ground-Water Conditions in the Mendota-Huron Area, Fresno and Kings Counties, California, Geological Survey Water-Supply Paper 1360 G
N	Employees Enterprises	15/12-12E1			11000	SW	8/15/1951	9078	Kx106	7.4		4800*	ppm			1195	ppm									594	ppm			*5240	ppm	1405.0	ppm									15.00	ppm	"Do" remark assumed to mean sample was turbid; TDS is assumed to be 20-150 mg/L higher than value shown b/c original data was reported as "sum of determined constuents" which does not include nitrate and silica; percent sodium = 80	Ground-Water Conditions in the Mendota-Huron Area, Fresno and Kings Counties, California, Geological Survey Water-Supply Paper 1360 G
O	David Feedman, Ginsburg & Co., 2	15/13-18N1			12000	SW	8/15/1951	1580	Kx106	7.9		1100*	ppm			85	ppm									182	ppm			*590	ppm	70.0	ppm											"Do" remark assumed to mean sample was turbid; TDS is assumed to be 20-150 mg/L higher than value shown b/c original data was reported as "sum of determined constuents" which does not include nitrate and silica;	Ground-Water Conditions in the Mendota-Huron Area, Fresno and Kings Counties, California, Geological Survey Water-Supply Paper 1360 G
P	Panoche Creek Farms	14S13E19R01			16000	N	7/7/1995	1800	ds/m			1100	mg/L																	580.0	mg/L	100.0	mg/L							0.019	ppb			Table 2-1, Westlands Water District Ground Water Integration Program, Mendota Pool & Canalside Water Quality
Q								960	umho/cm	8.0				200	mg/L			12.0	mg/L	2.40	mg/L	180.0	mg/L	4.00	mg/L	200	mg/L	ND		240.0	mg/L	29.0	mg/L	ND								1.00	mg/L	Pumping at 1500 GPM; gravel filter pack 50 to 1070 ft bgs; hydroxide as CaCO3 not detected; percent sodium = 91.	Unpublished data.
								940	umho/cm	8.2				200	mg/L			12.0	mg/L	2.30	mg/L	180.0	mg/L	5.00	mg/L	200	mg/L	ND		230.0	mg/L	30.0	mg/L	ND								1.00	mg/L	Pumping at 2000 GPM; gravel filter pack 50 to 1070 ft bgs; hydroxide as CaCO3 not detected; percent sodium = 91.	Unpublished data.
	Sagouspe #1-2001	#1-2001		840 - 1040 ft	16200	NE	12/28/2001	980	umho/cm	8.1				220	mg/L			12.0	mg/L	2.40	mg/L	190.0	mg/L	4.00	mg/L	220	mg/L	ND		230.0	mg/L	28.0	mg/L	ND								1.00	mg/L	Pumping at 2500 GPM; gravel filter pack 50 to 1070 ft bgs; hydroxide as CaCO3 not detected; percent sodium = 91.	Unpublished data.
R	Fundus Farms #22 H	14S13E22Q01			19000	NE	7/7/1995	1400	ds/m			940	mg/L																	630.0	mg/L	190.0	mg/L							0.004	ppb			Table 2-1, Westlands Water District Ground Water Integration Program, Mendota Pool & Canalside Water Quality
S	Greg Pruett #16-2	14S13E16M05			21000	NE	7/7/1995	2200	ds/m			1400	mg/L																	620.0	mg/L	200.0	mg/L							0.021	ppb			Table 2-1, Westlands Water District Ground Water Integration Program, Mendota Pool & Canalside Water Quality
T	Fundus Farms #22 W	14S13E22A01			24300	NE	7/7/1995	2400	ds/m			1200	mg/L																	520.0	mg/L	120.0	mg/L							0	ppb			Table 2-1, Westlands Water District Ground Water Integration Program, Mendota Pool & Canalside Water Quality
	AVERAGE							2124.3		7.8		1094.3		170.4		317.7		38.4		25.1		316.0		4.2		237.0				533.6		149.0		2.7		44.1		0.5		0.012		3.2			

07/07/95

Table 2 - 1
Westlands Water District
Ground Water Integration Program
Mendota Pool & Canalside Water Quality

Discharge Mile Point	Well Operator	Well Location	Pool No.	WWD Program Type	Max. Daily Flow CFS	Max. Monthly Flow AF	1994 Avg. Monthly Flow AF	Arsenic ppb	Chloride mg/l	TDS mg/l	EC ds/m	SO4 mg/l
1994/95 Approved Locations (USBR & DWR): (For Discharge to the California Aqueduct)												
105.00L	Sano Farms # 1	141202R01	14	SLC	3.5	212.0	53.3	0.012	130	1,200	1,900	640
105.21L	Sano Farms # 2	141202R02	14	SLC	6.4	388.0	61.5	0.003	160	1,500	2,100	590
105.21L	Sano Farms # 4	141202R03	14	SLC	6.7	405.0	61.5	0.012	120	1,200	1,900	630
105.60L	Sano Farms # 3	141201Q01	14	SLC	3.9 [1]	235.0	52.4	0.012	120	1,200	1,900	630
107.63R	Panoche Creek Farms	141319R01	14	SLC	2.9	175.0	132.1	0.019	100	1,100	1,800	580
108.50	CHECK 15											
108.58L	Greg Pruett # 16-2	141316N05	15	SLC	7.5	453.0	248.7	0.021	200	1,400	2,200	620
110.49L	Fundus Farms # 22 N	141322A01	15	SLC	3.0	181.0	53.6	0.000	120	1,200	2,400	520
110.49L	Fundus Farms # 22 H	141322Q01	15	SLC	1.4	85.0	53.6	0.004	190	940	1,400	630
111.91R	Cindy Pruett # 5-15	151305D02	15	SLC	4.4	266.0	157.6	0.014	54	860	1,300	420
114.00R	Baker Farming # 16 W	151316N01	15	SLC	3.2 [1]	193.0	44.0	0.011	48	910	1,300	450
115.00L	Gowens # 2	151407E01	15	SLC	7.0 [1]	423.0	179.7	0.010	41	730	1,200	300
115.43L	Lateral 7 (Mendota Pool)		15	SLC	63.0	3,809.0	1,012.8	0.000	130	390	730	63
115.44R	Panoche Farming Co.	151316L01	15	SLC	4.0	242.0	15.2	0.013	90	1,300	1,900	640
116.91R	Robertson Farms # 22 N	151322N01	15	SLC	3.5	212.0	91.2	0.015	48	1,000	1,300	510
116.91R	Robertson Farms # 22 S	151322P01	15	SLC	3.5	212.0	91.2	0.015	55	830	1,300	140
117.51L	Giacone & Sons	151419Q01	15	SLC	5.0	302.0	103.2	0.004	32	880	1,300	270
118.46R	Hansen Farms NW 31	151431D01	15	SLC	3.0	181.0	97.1	0.010	36	920	1,400	490
119.56R	Calico Farms	151336Q01	15	SLC	3.0	181.0	42.9	0.005	45	970	1,500	610
120.80L	Britz Farming	161404D01	15	SLC	3.0	181.0	104.1	0.016	36	870	1,300	450
122.07	CHECK 16											
122.59L	Cardella Farms	161427P01	16	SLC	3.0	181.0	79.8	0.003	80	1,100	1,600	590
123.05L	Conejo Farms Sec. 11	161411G01	16	SLC	3.0 [1]	182.0	94.7	0.008	46	1,000	1,500	610
123.05L	Richard Guenther	151435B01	16	SLC	3.0	182.0	44.8	0.003	39	860	1,300	510
123.89R	Three Rocks Trust # 3	161424E01	16	SLC	1.5	91.0	35.9	0.027	68	920	1,400	380
123.89R	Three Rocks Trust # 2	161413D01	16	SLC	1.6	97.0	35.9	0.006	80	1,100	1,600	380
124.16L	Sumner Peck Ranch	161412P02	16	SLC	3.9	235.0	27.5	0.000	53	1,100	1,500	540
125.33L	Sumner Peck Ranch # 1	161518P02	16	SLC	1.4 [1]	85.0	153.6	0.018	53	1,100	1,500	570
127.40L	Michael Gragnani # 29	161529J02	16	SLC	3.0	181.0	23.6	0.009	63	990	1,500	510
128.54L	Diedrich Ranch	161532A06	16	SLC	4.5	272.0	0	0.009	40	810	1100	380
132.77L	San Andreas Farms	171513A01	16	SLC	3.0	181.0	135.3	0.008	116	1,400	1,800	650
132.95	CHECK 17											
133.81L	Five Points Ranch	171620F01	17	DIP/RF	4.1	248.0	6.9	0.013	220	1,100	1,800	410
133.81L	Saviez Farms	171614Q01	17	DIP/RF	5.0	304.0	137.9	0.000	34	710	990	410
133.81L	San Andreas Farms # 18-7E	171618P01	17	SLC	7.0 [1]	423.0	220.0	0.000	77	970	1,400	530
135.48RA	Tres Picos # 26A	171526A01	17	SLC	7.0	423.0	340.7	0.005	100	1,100	1,800	640
135.48RA	Tres Picos # 26C	171526H01	17	SLC	4.0	242.0	182.8	0.004	110	1,200	1,800	610
135.48RB	Tres Picos # 36A	171536B01	17	SLC	3.5	212.0	0.0	0.004	90	1,000	1,500	500
136.03L	Five Points # 30NW	171630F01	17	SLC	5.5 [1]	333.0	185.1	0.003	120	1,100	1,800	550
137.31L	CWA/G&J Farms # 6	181606A02	17	SLC	4.0	242.0	148.8	0.000	130	1,000	1,600	550
137.83L	CWA Sec. # 6NE	181606F01	17	SLC	4.3	260.0	150.2	0.000	110	1,100	1,700	570

Draft Environmental Impact Report

Conveyance of Nonproject Groundwater from the Canalside Project Using the California Aqueduct

State Clearinghouse No. 94082068

Westlands Water District
Fresno, California

Jones & Stokes Associates, Inc.
Sacramento, California

October 1995

TABLE 2.—*Partial chemical analyses of water and descriptions of wells in the Mendota-Huron area, California*—Continued

PARTIAL ANALYSES OF WATER—continued

Well No.	pH	Specific conductance K×10⁶ at 25° C.	Sum of determined constituents (ppm)	Parts per million (upper number) and equivalents per million (lower number) for indicated cations and anions							Boron (B) (ppm)	Hardness as $CaCO_3$ (ppm)	Percent sodium
				Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)			
14/15-30M1	7.7	1,790	†1,200	----------	----------	375 16.31	----------	178 2.92	*640 13.31	160 4.51	2.2	76	91
31M1	7.2	3,520	†2,200	----------	----------	430 18.70	----------	220 3.60	*800 16.64	480 13.54	1.4	700	57
31N1	7.3	5,700	†5,700	----------	----------	590 25.66	----------	234 3.84	*1,600 33.28	600 16.92	1.6	1,320	64
15/12-1E1	7.4	2,926	†1,800	----------	----------	594 25.83	----------	218 3.58	*1,210 25.17	205 5.78	3.4	345	79
1N1	7.2	3,785	†2,300	----------	----------	737 32.05	----------	226 3.71	*1,760 36.61	305 8.60	5.1	545	75
12E1	7.4	9,078	†4,800	----------	----------	2,270 98.71	----------	594 9.74	*5,240 108.99	1,405 39.62	15.0	1,195	80
12Q1	7.2	2,950	†1,900	----------	----------	627 27.26	----------	196 3.21	*130 27.46	205 5.78	3.6	375	78
15A1	7.6	3,944	†2,400	----------	----------	550 23.92	----------	260 4.26	*1,300 27.04	225 6.35	5.5	1,760	40
15/13-1N1	7.8	1,740	†1,200	----------	----------	350 15.22	----------	164 2.69	*560 11.65	95 2.68	1.9	195	80
2N1	7.6	1,740	†1,200	----------	----------	285 12.39	----------	160 2.62	*690 14.35	85 2.40	1.8	210	67
3N1	7.8	1,902	†1,300	----------	----------	324 14.09	----------	180 2.95	*800 16.64	110 3.10	2.7	345	67
4E1	7.8	2,120	†1,500	----------	----------	330 14.35	----------	230 3.77	*870 18.10	115 3.24	3.3	455	61
5D1	7.7	1,536	†1,000	----------	----------	314 13.65	----------	188 3.08	*500 10.40	130 3.67	2.4	75	90
5M1	7.7	2,089	†1,500	----------	----------	352 15.31	----------	222 3.64	*830 17.26	100 2.82	3.4	360	68

TABLE 2.—*Partial chemical analyses of water and descriptions of wells in the Mendota-Huron area, California*—Continued

DESCRIPTION OF WELLS—continued

Well No.	Transformer No. or source of power	Owner or user and owner's well No.	Depth (feet)	Type of well and casing diameter (inches)	Perforated interval (feet)		Water level		Description of water sample					
					Top	Bottom	Date measured	Depth to water below land-surface datum (feet)	Temperature ° F.	Point of sampling	Use	Collected by	Day collected (August 1951)	Remarks
14/15-30M1	1194	L. A. and J. W. Jones	1,260	R, G, 16	670	1,260	4-27-51	p 226.1	81	D	Irr	DWB	14	Sediment.
31M1	1109	do		16					75	D	Irr	DWB	14	Clear.
31N1	2493	L. A. and J. W. Jones	1,200	R, G	300	1,200	4-27-51	p 147.2	74	D	Irr	DWB	14	Do.
15/12-1E1	2509	Employees Enterprises, M-8	1,819	R, G, 16	650	1,819			83	D	Irr	DWB	15	Do.
1N1	2492	M-5	1,873	R, G, 16	639	1,873	8-22-50	p 565.2	83	D	Irr	DWB	15	Do.
12E1	3319	Employees Enterprises		R, G, 18					94	D	Irr	DWB	15	Do.
12Q1	2694	Employees Enterprises, 26	1,820	R, G, 16	708	1,820	8-18-50	p 609	90	D	Irr	DWB	15	Do.
15A1				12						(2)	Dom	DWB	15	Do.
15/13-1N1	2761	Pillbos Bros., 6	1,617	R, G, 16	720	1,617	4-23-51	p 472.5	90	D	Irr	DWB	15	Do.
2N1	2791	Mike Grammis	1,628	R, G, 16	716	1,628			90	D	Irr	DWB	15	Do.
3N1	2651	Employees Enterprises, 23	1,800	R, G, 16	631	1,800			92	D	Irr	DWB	15	Do.
4E1	2618	M-11	1,805	16	654	1,805			92	D	Irr	DWB	15	Do.
5D1	2205	M-3		16					94	D	Irr	DWB	15	Do.
5M1	2108	M-1	1,520	R, G, 16	522	1,520	4-23-51	p 538.6	92	D	Dom	DWB	15	Do.

See footnotes at end of table, p. 575.

TABLE 2.—*Partial chemical analyses of water and descriptions of wells in the Mendota-Huron area, California*—Continued

PARTIAL ANALYSES OF WATER—continued

Well No.	pH	Specific conductance K×10⁶ at 25° C.	Sum of determined constituents (ppm)	Parts per million (upper number) and equivalents per million (lower number) for indicated cations and anions							Boron (B) (ppm)	Hardness as $CaCO_3$ (ppm)	Percent sodium
				Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)			
15/13-5N1	7.7	2,157	†1,500	----------	----------	462 20.01	----------	212 3.48	*780 16.22	125 3.53	3.4	120	89
5R1	8.0	1,363	†900	----------	----------	242 10.52	----------	184 3.02	*490 10.19	55 1.55	2.2	170	75
6N1	7.8	2,281	†1,700	----------	----------	506 22.00	----------	230 3.77	*510 10.61	140 3.95	3.6	110	91
8N1	7.6	2,797	†1,800	----------	----------	644 28.00	----------	242 3.97	*1,320 27.46	200 5.64	4.1	300	82
9E1	8.1	1,601	†1,100	----------	----------	297 12.91	----------	202 3.31	*600 12.48	90 2.54	2.7	240	73
12N1	7.6	1,830	†1,300	----------	----------	350 15.22	----------	172 2.82	*580 12.06	115 3.24	1.8	235	76
14N1	7.6	1,740	†1,200	----------	----------	285 12.39	----------	174 2.85	*640 13.31	85 2.40	2.2	300	67
15P1	7.9	1,370	†900	----------	----------	265 11.52	----------	172 2.82	*450 9.36	60 1.69	2.0	95	86
16N1	7.9	1,650	†1,100	----------	----------	----------	----------	198 3.24	*540 11.24	90 2.54	----------	135	----------
18N1	7.9	1,580	†1,100	----------	----------	----------	----------	182 2.98	*590 12.28	70 1.97	----------	85	----------
20E1	7.8	2,560	†1,900	----------	----------	----------	----------	224 3.67	*900 18.74	170 4.79	----------	115	----------
26J1	7.8	1,300	†850	----------	----------	255 11.09	----------	138 2.26	*540 9.36	45 1.27	2.4	130	81
26K1	7.9	1,390	†890	----------	----------	255 11.09	----------	136 2.23	*560 11.65	45 1.27	1.9	160	78
36M1	8.0	1,370	†900	----------	----------	255 11.09	----------	170 2.79	*520 10.82	40 1.13	2.3	145	79

TABLE 2.—*Partial chemical analyses of water and descriptions of wells in the Mendota-Huron area, California*—Continued

DESCRIPTION OF WELLS—continued

Well No.	Transformer No. or source of power	Owner or user and owner's well No.	Depth (feet)	Type of well and casing diameter (inches)	Perforated interval (feet)		Water level		Description of water sample					
					Top	Bottom	Date measured	Depth to water below land-surface datum (feet)	Temperature ° F.	Point of sampling	Use	Collected by	Day collected (August 1951)	Remarks
15/13-5N1	2109	Employees Enterprises, M-2	1,544	16	548	1,544	4-23-51	534.8	93	D	Irr	DWB	15	Clear.
5R1	2209	M-4	1,528	R, G, 16	591	1,528	4-23-51	527.8	94	D	Irr	DWB	15	Do.
6N1	2487	M-7	1,704	R, G, 16	520	1,704			92	D	Irr	DWB	15	Do.
8N1	2492	M-6	1,798	R, G, 16	639	1,798	8- 6-51	p 609.9	98	D	Irr	DWB	15	Do.
9E1	2533	M-10	1,800	16	660	1,800			96	D	Irr	DWB	15	Do.
12N1	2652	24	1,837	R, G, 16	649	1,837			92	D	Irr	DWB	15	Do.
14N1	2689	25	1,811	R, G, 16	599	1,811			93	¼ mi	Irr	DWB	15	Do.
15P1	3181	David Freedman and Co., 4		R, G, 16					98	D	Irr	DWB	15	Do.
16N1	2705	1	1,911	16	696	1,911			99	D	Irr	DWB	15	Do.
18N1	4009	David Freedman, Ginsburg & Co.	2,048	R, G, 18					91	D	Irr	DWB	15	Do.
20E1	2714	David Freedman & Co., 2	1,980	R, G, 16	751	1,980			99	D	Irr	DWB	15	Do.
26J1	2696	Price Giffen, 8	1,864	R, G, 16	698	1,864			97	D	Irr	DWB	14	Do.
26K1	3160	9		R, G, 16			4-26-51	562.3	95	D	Irr	DWB	14	Do.
36M1	2697	7	1,900	R, G, 16						150 ft	Irr	DWB	14	Do.

Ground-Water Conditions in the Mendota-Huron Area Fresno and Kings Counties, California

By G. H. DAVIS *and* J. F. POLAND

CONTRIBUTIONS TO THE HYDROLOGY OF THE UNITED STATES

GEOLOGICAL SURVEY WATER-SUPPLY PAPER 1360-G

Prepared in cooperation with the California Department of Public Works, Division of Water Resources

UNITED STATES GOVERNMENT PRINTING OFFICE, WASHINGTON : 1957

STATE OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT

Mineral Analyses of Ground Water

Date Time	County Temp (°C)	FpH LpH	FEC DO	TH Ca	Mg Na	K T Alk	SO4 Cl	NO3 F	B Turb	SiO2	TDS LEC	Sampler Lab
				Dissolved Constituents in Milligrams per Liter								
15S13E05D01M												
08/15/1951	Fresno			75			500.0		2.40			
	34.0	7.7			314.0	156.0	130.0				1,536	
15S13E05M01M												
08/15/1951	Fresno			360			830.0		3.40			
	33.0	7.7			352.0	184.0	100.0				2,089	
15S13E05N01M												
08/15/1951	Fresno			120			780.0		3.40			
	33.5	7.7			462.0	176.0	125.0				2,157	
08/12/1952	Fresno		2,160	134	16.00	4.10	721.0	1.50	2.80	42.0		
	35.5	7.9		27.0	450.0	169.0	117.0	0.60				
15S13E05R01M												
08/15/1951	Fresno			170			490.0		2.20			
	34.0	8.0			242.0	153.0	55.0				1,363	
08/12/1952	Fresno			198	27.00	3.70	487.0	1.30	2.10	44.0		
	33.5	8.2		35.0	240.0	149.0	58.0	0.50				
07/07/1953	Fresno			360	50.00	5.30	667.0	0.30	1.80	44.0		
1330	32.5	7.6		62.0	277.0	159.0	77.0	0.50			1,770	
06/28/1956	Fresno			890					3.10			
0910	29.5				324.0		149.0				2,770	
07/31/1957	Fresno			220					1.90			
1515	32.5				230.0		52.0				1,380	
06/25/1958	Fresno			240	31.00	4.80	438.0	1.30	2.30	42.0		
1210	32.5	7.5		45.0	225.0	154.0	70.0	0.50			1,340	
08/14/1959	Fresno			335	46.00	4.20	570.0	4.00	2.30	42.0		
1000	32.0	8.1		58.0	242.0	163.0	68.0	0.50			1,610	
07/19/1960	Fresno			279	37.00	3.00	516.0	4.40	2.03	43.0		
1000		8.2		51.0	220.0	143.0	65.0	0.40			1,460	
10/19/1961	Fresno			385	46.00	3.20	710.0	5.10	2.70	52.0		
1210	32.0	8.4		78.0	302.0	133.0	82.0	0.60			1,970	

See standard explanation sheet for chemical analysis nomenclature

Date Time	County Temp (°C)	FpH LpH	FEC DO	TH Ca	Mg Na	K T Alk	SO4 Cl	NO3 F	B Turb	SiO2	TDS LEC	Sampler Lab
				Dissolved Constituents in Milligrams per Liter								
15S13E06J01M												
07/16/1968	Fresno			260	35.00		640.0	4.10	2.80		1,250	5000
	33.0	7.6		45.0	320.0		88.0				1,880	5000
15S13E06N01M												
08/15/1951	Fresno			110			590.0		3.60			
	33.0	7.8			506.0	191.0	140.0				2,281	
08/12/1952	Fresno		2,090	87	6.60	5.40	672.0	2.00	3.90	44.0		
	32.5	7.9		24.0	440.0	177.0	113.0	0.50				

"King, Michael \(Cinergy Solutions\)" <Michael.King2@cinergy.com >

06/06/2006 06:28 PM

To <Jason_Moore@urscorp.com>

cc <Cindy_Poire@urscorp.com>, <Jennifer_Wu@urscorp.com>, "Jenkins, Dave" <Dave.Jenkins@cinergy.com>, "Garrett, Stephen M."

bcc

Subject RE: Incomplete Water Quality Parameters Spreadsheet

Jason,
I attached some of the more pertinent files that we originally had. SIO2 is also a part of these older samples.

The irrigation well is the newest and it is located near Mendota. The older data has a map showing the well location; but also a good deal of data.

Mike

-----Original Message-----
From: Jason_Moore@URSCorp.com [mailto:Jason_Moore@URSCorp.com]
Sent: Tuesday, June 06, 2006 8:15 PM
To: Jenkins, Dave
Cc: King, Michael (Cinergy Solutions); Cindy_Poire@URSCorp.com; Jennifer_Wu@URSCorp.com
Subject: Incomplete Water Quality Parameters Spreadsheet

Dave,

Cindy requested that I send you our current water quality parameters spreadsheet for the Panoche Energy Center project at the end of the day. The attached spreadsheet is incomplete and is still being developed, but is representative of the data we have been able to gather for the groundwater underlying the site so far. It has not been proof read or checkprinted yet.

Please let Cindy know if you need additional information regarding the spreadsheet.

Thanks

Jason M. Moore, PG
Senior Geologist
URS Corporation
30 River Park Place West, Suite 180
Fresno, CA 93720
559.256.1444 Main
559.256.1447 Direct
559.906.5336 Mobile
559.256.1478 Facsimile
jason_moore@urscorp.com

(See attached file: Lit Search GW Params.xls)

This e-mail and any attachments are confidential. If you receive this

message in error or are not the intended recipient, you should not retain,

BSK ANALYTICAL LABORATORIES

Bob Simonian
Cal West Rain
P.O Box 306
Kerman, CA 93630

Certificate of Analysis
ELAP Certificate #1180
Report Issue Date: 01/10/2002

BSK Submission #: 2001121491
BSK Sample ID #: 171467
Project ID: Project Desc:
Submission Comments:
Sample Type: Liquid
Sample Description: Sagouspe 1500 GPM
Sample Comments:

Date Sampled: 12/28/2001
Time Sampled: 1015
Date Received: 12/28/2001

Inorganics

Analyte	Method	Result	Units	PQL	Dilution	DLR	Prep Date	Analysis Date
Alkalinity (as CaCO3)	SM 2320 B	200	mg/L	1	1	1	12/29/2001	12/29/2001
Bicarbonate (as CaCO3)	SM 2320 B	200	mg/L	1	1	1	12/29/2001	12/29/2001
Boron (B)	EPA 6010A	1.0	mg/L	0.2	1	0.2	01/07/2002	01/08/2002
Calcium (Ca)	EPA 6010A	12	mg/L	0.2	1	0.2	01/07/2002	01/08/2002
Carbonate (as CaCO3)	SM 2320 B	ND	mg/L	1	1	1	12/29/2001	12/29/2001
Chloride (Cl)	EPA 300.0	29	mg/L	1	10	10	12/28/2001	12/29/2001
Conductivity - Specific (EC)	SM 2510 B	960	µmho/cm	1	1	1	12/29/2001	12/29/2001
Hydroxide (as CaCO3)	SM 2320 B	ND	mg/L	1	1	1	12/29/2001	12/29/2001
Magnesium (Mg)	EPA 6010A	2.4	mg/L	0.2	1	0.2	01/07/2002	01/08/2002
Nitrate (NO3)	EPA 300.0	ND	mg/L	1	10	10	12/28/2001	12/29/2001
Percent Sodium	EPA 200.7	91	%	-	1	N/A	01/10/2002	01/10/2002
pH	EPA 9040	8.0	STD	-	1	N/A	12/29/2001	12/29/2001
Potassium (K)	EPA 6010A	4.0	mg/L	4	1	4	01/07/2002	01/08/2002
Sodium (Na)	EPA 6010A	180	mg/L	2	1	2	01/07/2002	01/08/2002
Sulfate (SO4)	EPA 300.0	240	mg/L	2	10	20	12/28/2001	12/29/2001

mg/L: Milligrams/Liter (ppm)
mg/Kg: Milligrams/Kilogram (ppm)
µg/L: Micrograms/Liter (ppb)
µg/Kg: Micrograms/Kilogram (ppb)
%Rec: Percent Recovered (surrogates)

PQL: Practical Quantitation Limit
DLR: Detection Limit for Reporting : PQL x Dilution
ND: None Detected at DLR

H: Analyzed outside of hold time
P: Preliminary result
S: Suspect result. See Cover Letter for comments.
E: Analysis performed by External laboratory. See External Laboratory Report attachments.

Report Authentication Code:

1414 Stanislaus Street Fresno, CA 93706-1623 Phone 559-497-2888, In CA 800-877-8310 Fax 559-485-6935

BSK ANALYTICAL LABORATORIES

Bob Simonian
Cal West Rain
P.O Box 306
Kerman, CA 93630

Certificate of Analysis
ELAP Certificate #1180
Report Issue Date: 01/10/2002

BSK Submission #: 2001121491
BSK Sample ID #: 171468
Project ID: Project Desc:
Submission Comments:
Sample Type: Liquid
Sample Description: Sagouspe 2000 GPM
Sample Comments:

Date Sampled: 12/28/2001
Time Sampled: 1215
Date Received: 12/28/2001

Inorganics

Analyte	Method	Result	Units	PQL	Dilution	DLR	Prep Date	Analysis Date
Alkalinity (as CaCO3)	SM 2320 B	200	mg/L	1	1	1	12/29/2001	12/29/2001
Bicarbonate (as CaCO3)	SM 2320 B	200	mg/L	1	1	1	12/29/2001	12/29/2001
Boron (B)	EPA 6010A	1.0	mg/L	0.2	1	0.2	01/07/2002	01/08/2002
Calcium (Ca)	EPA 6010A	12	mg/L	0.2	1	0.2	01/07/2002	01/08/2002
Carbonate (as CaCO3)	SM 2320 B	ND	mg/L	1	1	1	12/29/2001	12/29/2001
Chloride (Cl)	EPA 300.0	30	mg/L	1	12	12	12/28/2001	12/29/2001
Conductivity - Specific (EC)	SM 2510 B	940	µmho/cm	1	1	1	12/29/2001	12/29/2001
Hydroxide (as CaCO3)	SM 2320 B	ND	mg/L	1	1	1	12/29/2001	12/29/2001
Magnesium (Mg)	EPA 6010A	2.3	mg/L	0.2	1	0.2	01/07/2002	01/08/2002
Nitrate (NO3)	EPA 300.0	ND	mg/L	1	12	12	12/28/2001	12/29/2001
Percent Sodium	EPA 200.7	91	%	-	1	N/A	01/10/2002	01/10/2002
pH	EPA 9040	8.2	STD	-	1	N/A	12/29/2001	12/29/2001
Potassium (K)	EPA 6010A	5.0	mg/L	4	1	4	01/07/2002	01/08/2002
Sodium (Na)	EPA 6010A	180	mg/L	2	1	2	01/07/2002	01/08/2002
Sulfate (SO4)	EPA 300.0	230	mg/L	2	12	24	12/28/2001	12/29/2001

mg/L: Milligrams/Liter (ppm)
mg/Kg: Milligrams/Kilogram (ppm)
µg/L: Micrograms/Liter (ppb)
µg/Kg: Micrograms/Kilogram (ppb)
%Rec: Percent Recovered (surrogates)

PQL: Practical Quantitation Limit
DLR: Detection Limit for Reporting
: PQL x Dilution
ND: None Detected at DLR

H: Analyzed outside of hold time
P: Preliminary result
S: Suspect result. See Cover Letter for comments.
E: Analysis performed by External laboratory. See External Laboratory Report attachments.

Report Authentication Code:

1414 Stanislaus Street Fresno, CA 93706-1623 Phone 559-497-2888, In CA 800-877-8310 Fax 559-485-6935

BSK ANALYTICAL LABORATORIES

Bob Simonian
Cal West Rain
P.O Box 306
Kerman, CA 93630

Certificate of Analysis
ELAP Certificate #1180
Report Issue Date: 01/10/2002

BSK Submission #: 2001121491
BSK Sample ID #: 171469
Project ID: Project Desc:
Submission Comments:
Sample Type: Liquid
Sample Description: Sagouspe 2500 GPM
Sample Comments:

Date Sampled: 12/28/2001
Time Sampled: 1415
Date Received: 12/28/2001

Inorganics

Analyte	Method	Result	Units	PQL	Dilution	DLR	Prep Date	Analysis Date
Alkalinity (as CaCO3)	SM 2320 B	220	mg/L	1	1	1	12/29/2001	12/29/2001
Bicarbonate (as CaCO3)	SM 2320 B	220	mg/L	1	1	1	12/29/2001	12/29/2001
Boron (B)	EPA 6010A	1.0	mg/L	0.2	1	0.2	01/02/2002	01/08/2002
Calcium (Ca)	EPA 6010A	12	mg/L	0.2	1	0.2	01/02/2002	01/08/2002
Carbonate (as CaCO3)	SM 2320 B	ND	mg/L	1	1	1	12/29/2001	12/29/2001
Chloride (Cl)	EPA 300.0	28	mg/L	1	12	12	12/28/2001	12/29/2001
Conductivity - Specific (EC)	SM 2510 B	980	µmho/cm	1	1	1	12/29/2001	12/29/2001
Hydroxide (as CaCO3)	SM 2320 B	ND	mg/L	1	1	1	12/29/2001	12/29/2001
Magnesium (Mg)	EPA 6010A	2.4	mg/L	0.2	1	0.2	01/02/2002	01/08/2002
Nitrate (NO3)	EPA 300.0	ND	mg/L	1	12	12	12/28/2001	12/29/2001
Percent Sodium	EPA 200.7	91	%	-	1	N/A	01/10/2002	01/10/2002
pH	EPA 9040	8.1	STD	-	1	N/A	12/29/2001	12/29/2001
Potassium (K)	EPA 6010A	4.0	mg/L	4	1	4	01/02/2002	01/08/2002
Sodium (Na)	EPA 6010A	190	mg/L	2	1	2	01/02/2002	01/08/2002
Sulfate (SO4)	EPA 300.0	230	mg/L	2	12	24	12/28/2001	12/29/2001

mg/L: Milligrams/Liter (ppm)
mg/Kg: Milligrams/Kilogram (ppm)
µg/L: Micrograms/Liter (ppb)
µg/Kg: Micrograms/Kilogram (ppb)
%Rec: Percent Recovered (surrogates)

PQL: Practical Quantitation Limit
DLR: Detection Limit for Reporting : PQL x Dilution
ND: None Detected at DLR

H: Analyzed outside of hold time
P: Preliminary result
S: Suspect result, See Cover Letter for comments.
E: Analysis performed by External laboratory. See External Laboratory Report attachments.

Report Authentication Code:

1414 Stanislaus Street Fresno, CA 93706-1623 Phone 559-497-2888, In CA 800-877-8310 Fax 559-485-6935

BSK ANALYTICAL LABORATORIES

Cover Letter

01/10/2002

Bob Simonian
Cal West Rain
P.O Box 306
Kerman, CA 93630

Sagonespe

BSK Submission Number: 2001121491

Dear Bob Simonian:

BSK Analytical Laboratories adheres to a quality assurance plan that has been approved by the State of California Department of Health Services. Our Environmental Laboratory Accreditation Program (ELAP) certification number is 1180.

BSK Analytical Laboratories has prepared this certificate of analysis in response to your request for analytical services. All information was taken from your Chain of Custody or related correspondence. BSK completed all sample handling and analytical procedures within the Laboratory's standard acceptability criteria with any exceptions noted below.

If additional clarification of any information is required, please contact our Client Services Department at (800)877-8310 or (559)497-2888.

Sincerely,

BSK Analytical Laboratories

Authorizing Signature(s)

Juliane Adams
Organic Laboratory Supervisor

Ko Yang
Inorganic Laboratory Supervisor

Cynthia Pigman
QA/QC Supervisor

1414 Stanislaus Street • Fresno, CA 93706-1623 • Phone 559-497-2888, In CA 800-877-8310 • Fax 559-485-6935

DUPLICATE
Driller's Copy

STATE OF CALIFORNIA

WELL COMPLETION REPORT

Refer to Instruction Pamphlet

No. 749109

Owner's Well No. #1-2001

Date Work Began 11/1/01, Ended 11/20/01

Local Permit Agency FRESNO COUNTY

Permit No. _____ Permit Date _____

DWR USE ONLY — DO NOT FILL IN

STATE WELL NO./STATION NO.

LATITUDE LONGITUDE

APN/TRS/OTHER

GEOLOGIC LOG

ORIENTATION (✓) ✓ VERTICAL — HORIZONTAL — ANGLE — (SPECIFY)

DRILLING METHOD REVERSE FLUID _____

DEPTH FROM SURFACE Ft. to Ft.		DESCRIPTION *Describe material, grain size, color, etc.*
0	40	CLAY
40	45	SAND & GRAVEL
45	50	CLAY
50	90	SAND GRAVEL ROCKS
90	118	BROWN CLAY
118	132	SAND GRAVEL
132	137	BROWN CLAY
137	172	GRAVEL ROCK
172	175	BROWN CLAY
175	221	SAND GRAVEL ROCK
221	230	BROWN CLAY
230	253	SAND GRAVEL ROCKS
253	307	BROWN CLAY
307	310	GRAVEL
301	319	BROWN CLAY
319	332	GRAVEL
332	340	BROWN CLAY
340	354	GRAVEL
354	390	BROWN CLAY
390	407	GRAVEL
407	528	BROWN CLAY
528	537	GRAVEL
537	544	BROWN CLAY
544	552	COARSE SAND / SM. GRAVEL
552	587	BROWN CLAY
587	594	GRAVEL
594	665	BROWN CLAY
665	667	SAND - GRAVEL
667	691	BROWN CLAY
691	760	BLUE CLAY

TOTAL DEPTH OF BORING 1070 (Feet)

TOTAL DEPTH OF COMPLETED WELL 1050 (Feet)

WELL OWNER

Name JEAN SAGOUSPE

Mailing Address P.O. BOX 1365

LOS BANOS, CA 93635

CITY STATE ZIP

WELL LOCATION

Address NORTH AND FAIRFAX

City PANOCHE CA

County FRESNO

APN Book _____ Page _____ Parcel _____

Township _____ Range _____ Section _____

Latitude DEG. MIN. SEC DEG. MIN SEC

LOCATION SKETCH

NORTH

WEST

North Ave

3/4 mile

EAST

Fairfax

SOUTH

Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. **PLEASE BE ACCURATE & COMPLETE.**

ACTIVITY (✓)

✓ NEW WELL

MODIFICATION/REPAIR

— Deepen

— Other (Specify)

— DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")

PLANNED USES (✓)

WATER SUPPLY

— Domestic — Public

✓ Irrigation — Industrial

MONITORING —

TEST WELL —

CATHODIC PROTECTION —

HEAT EXCHANGE —

DIRECT PUSH —

INJECTION —

VAPOR EXTRACTION —

SPARGING —

REMEDIATION —

OTHER (SPECIFY) —

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER _____ (Ft.) BELOW SURFACE

DEPTH OF STATIC WATER LEVEL _____ (Ft.) & DATE MEASURED _____

ESTIMATED YIELD * _____ (GPM) & TEST TYPE _____

TEST LENGTH _____ (Hrs.) TOTAL DRAWDOWN _____ (Ft.)

May not be representative of a well's long-term yield.

CASING (S)

DEPTH FROM SURFACE Ft. to Ft.		BORE-HOLE DIA (Inches)	TYPE (✓) BLANK	SCREEN	CONDUCTOR	FILL PIPE	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
0	50	44"			✓		STEEL	36"	5/16"	
0	840	30"	✓				STEEL	18" OD	5/16"	
840	1040	30"		✓			STEEL	18" OD	5/16"	MILL SLO
1040	1050	30"	✓				STEEL	18" OD	5/16"	

ANNULAR MATERIAL

DEPTH FROM SURFACE Ft. to Ft.		TYPE CEMENT (✓)	BENTONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)
0	50				SIX SACK
0	1070				1/4 - 1/8

ATTACHMENTS (✓)

— Geologic Log

✓ Well Construction Diagram

✓ Geophysical Log(s)

— Soil/Water Chemical Analysis

— Other _____

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME MYERS BROS. WELL DRILLING, INC.
(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

8650 E LACEY BLVD. HANFORD CA 93230-4844
ADDRESS CITY STATE ZIP

Signed [signature] 11/26/01 548214
WELL DRILLER/AUTHORIZED REPRESENTATIVE DATE SIGNED C-57 LICENSE NUMBER

DWR 188 REV 11-97

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

. LICATE
Driller's Copy
Page 2 of 2

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet
No. 749109

Owner's Well No. #1-2001
Date Work Began 11/1/01 Ended 11/20/01
Local Permit Agency FRESNO COUNTY
Permit No. _____ Permit Date _____

DWR USE ONLY — DO NOT FILL IN
STATE WELL NO / STATION NO
LATITUDE LONGITUDE
APN/TRS/OTHER

GEOLOGIC LOG

ORIENTATION (✓) ✓ VERTICAL — HORIZONTAL — ANGLE — (SPECIFY)
DRILLING METHOD REVERSE FLUID _____

DEPTH FROM SURFACE Ft.	to Ft.	DESCRIPTION *Describe material, grain, size, color, etc.*
760	850	CORCORAN CLAY
850	862	CLAY - GRAVEL
862	897	HARD CLAY
897	912	SAND - GRAVEL
912	990	SANDY CLAY
990	1030	BLUE CLAY W/SAND STRINGERS
1030	1070	CLAY BLUE (SANDY) TEXTURE

TOTAL DEPTH OF BORING 1070 (Feet)
TOTAL DEPTH OF COMPLETED WELL 1050 (Feet)

WELL OWNER

Name JEAN SAGOUSPE
Mailing Address P.O. BOX 1365
LOS BANOS, CA 93635
CITY STATE ZIP

WELL LOCATION

Address NORTH AND FAIRFAX
City PANOCHE CA
County FRESNO
APN Book _____ Page _____ Parcel _____
Township _____ Range _____ Section _____
Latitude _____ DEG MIN. SEC _____ DEG. MIN SEC

LOCATION SKETCH

NORTH
WEST EAST
SOUTH

Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. **PLEASE BE ACCURATE & COMPLETE.**

ACTIVITY (✓)

✓ NEW WELL
MODIFICATION/REPAIR
— Deepen
— Other (Specify)
— DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")

PLANNED USES (✓)
WATER SUPPLY
— Domestic — Public
✓ Irrigation — Industrial
MONITORING —
TEST WELL —
CATHODIC PROTECTION —
HEAT EXCHANGE —
DIRECT PUSH —
INJECTION —
VAPOR EXTRACTION —
SPARGING —
REMEDIATION —
OTHER (SPECIFY) —

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER _____ (Ft.) BELOW SURFACE
DEPTH OF STATIC WATER LEVEL _____ (Ft.) & DATE MEASURED _____
ESTIMATED YIELD _____ (GPM) & TEST TYPE _____
TEST LENGTH _____ (Hrs.) TOTAL DRAWDOWN _____ (Ft.)
May not be representative of a well's long-term yield.

CASING (S)

DEPTH FROM SURFACE Ft.	to Ft.	BORE-HOLE DIA. (Inches)	TYPE (✓) BLANK	SCREEN	CONDUCTOR	FILL PIPE	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
0	50	44"			✓		STEEL	36"	5/16"	
0	840	30"	✓				STEEL	18" OD	5/16"	
840	1040	30"		✓			STEEL	18" OD	5/16"	MILL SLO
1040	1050	30"	✓				STEEL	18" OD	5/16"	

ANNULAR MATERIAL

DEPTH FROM SURFACE Ft.	to Ft.	TYPE CEMENT (✓)	BENTONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)
0	50				SIX SACK
0	1070				1/4 - 1/8

ATTACHMENTS (✓)

— Geologic Log
✓ Well Construction Diagram
✓ Geophysical Log(s)
— Soil/Water Chemical Analysis
— Other _____
ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

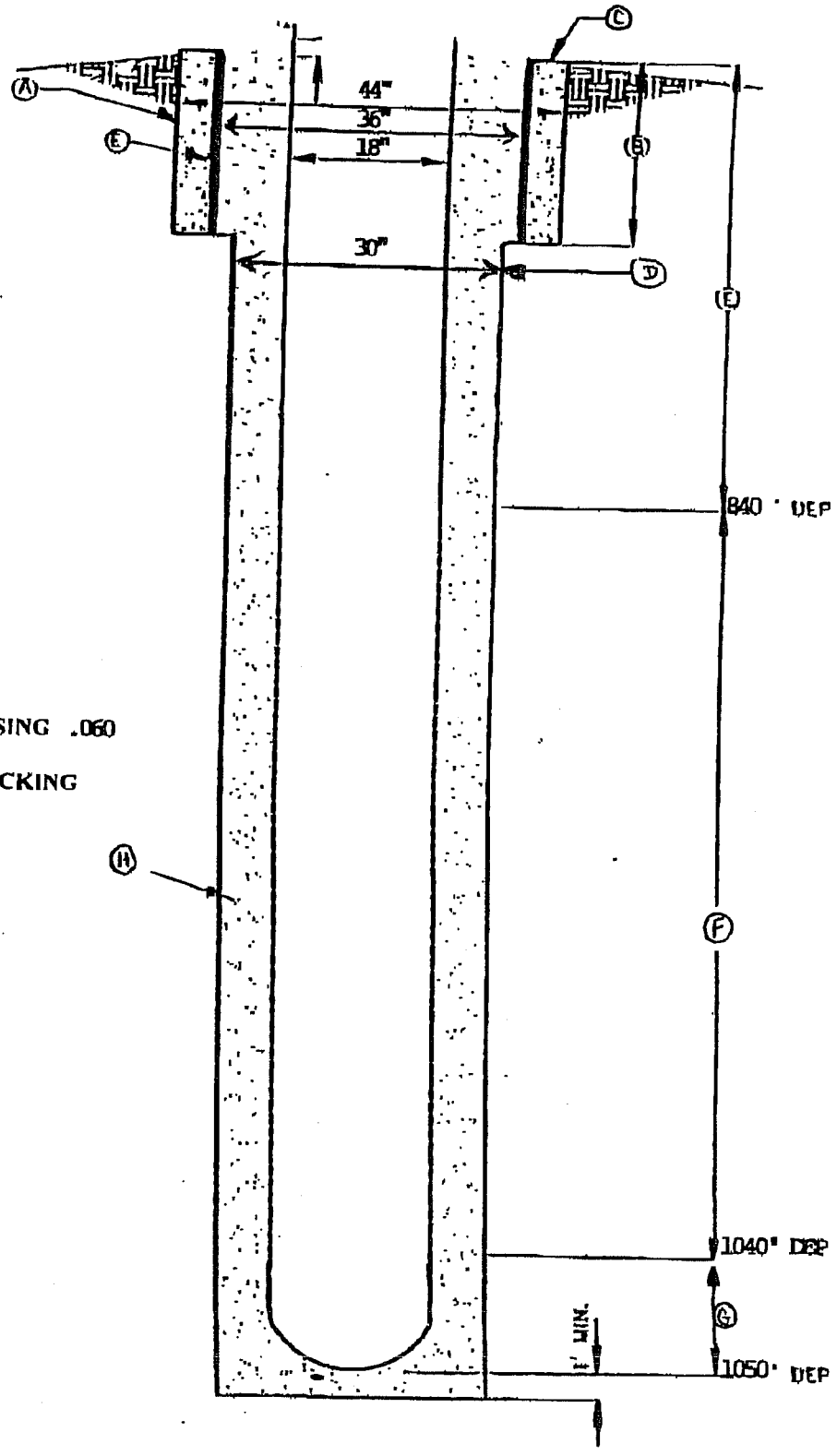
I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief
NAME MYERS BROS. WELL DRILLING, INC.
(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)
8650 E. LACEY BLVD. HANFORD CA 93230-4844
ADDRESS CITY STATE ZIP
Signed _____ 11/26/01 548214
WELL DRILLER/AUTHORIZED REPRESENTATIVE DATE SIGNED C-57 LICENSE NUMBER

DWR 188 REV 11-97

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

MYERS BROS. WELL DRILLING, INC.
8650 E. LACEY BLVD.
HANFORD, CA 93230-4844
phone (559) 582-9031 fax (559) 582-5744
License # 548214

Jean Sagouspe
WELL 1-2001
Nov. 20, 2001



NOTES:

A. 50 L.F. 44" BORE HOLE
B. 50 L.F. 36" CONDUCTOR
C. 50 L.F. SDX SACK MIX SEAL
D. 1020 L.F. 30" BORE HOLE
E. 840 L.F. 18 X 5/16 BLANK CASING
F. 200 L.F. 18 X 5/16 PERFORATED CASING .060
G. 10 L.F. 18 X 5/16 BLANK BOTTOM
H. 1070 L.F. ¼-1/8 GRAVEL FILTER PACKING

Crop	Surface Water Supplies			Ground Water	Total Water	Cropped	Groundwater Elev.		PEC Pumpage		
Year	CVP %	CVP - AF	Other - AF	Pumpage- AF	Supply - AF	Acres	MSL - Ft.	Change - Ft.	AF	% WWD	Impact Ft.
1976	75%	862,500	-	97,000	959,500	NA	-2	9	1,182	1.22%	0.11
	25%	287,500	-	472,000	759,500	NA	-99	-97	1,182	0.25%	-0.24
	100%	1,150,000	-	159,000	1,309,000	NA	-4	95	1,182	0.74%	0.71
	100%	1,150,000	-	140,000	1,290,000	NA	-13	-9	1,182	0.84%	-0.08
1980	100%	1,150,000	-	106,000	1,256,000	NA	4	17	1,182	1.12%	0.19
	100%	1,150,000	-	99,000	1,249,000	NA	11	7	1,182	1.19%	0.08
	100%	1,150,000	-	105,000	1,255,000	NA	32	21	1,182	1.13%	0.24
	100%	1,150,000	-	31,000	1,181,000	NA	56	24	1,182	3.81%	0.92
	100%	1,150,000	-	73,000	1,223,000	NA	61	5	1,182	1.62%	0.08
1985	100%	1,150,000	-	228,000	1,378,000	NA	63	2	1,182	0.52%	0.01
	100%	1,150,000	-	145,000	1,295,000	NA	71	8	1,182	0.82%	0.07
	100%	1,150,000	-	159,000	1,309,000	NA	89	18	1,182	0.74%	0.13
1988	100%	1,150,000	105,369	160,000	1,415,369	NA	64	-25	1,182	0.74%	-0.18
1989	100%	1,150,000	120,079	175,000	1,445,079	NA	63	-1	1,182	0.68%	-0.01
1990	50%	575,000	16,279	300,000	995,079	NA	9	-54	1,182	0.39%	-0.21
	25%	287,500	100,342	600,000	903,779	NA	-32	-41	1,182	0.20%	-0.08
	25%	287,500	143,484	600,000	1,030,984	NA	-62	-30	1,182	0.20%	-0.06
1993	50%	575,000	235,031	225,000	1,035,031	486,116	1	63	1,182	0.53%	0.33
	43%	494,500	164,624	325,000	984,124	496,990	-51	-52	1,182	0.36%	-0.19
1995	100%	1,150,000	179,587	150,000	1,479,587	531,632	27	78	1,182	0.79%	0.61
	95%	1,092,500	265,562	50,000	1,408,062	549,704	49	22	1,182	2.36%	0.52
	90%	1,035,000	355,993	30,000	1,420,993	546,118	63	14	1,182	3.94%	0.55
	100%	1,150,000	216,889	15,000	1,381,889	545,309	63	0	1,182	7.88%	0.00
	70%	805,000	293,418	20,000	1,118,418	545,847	65	2	1,182	5.91%	0.12
2000	65%	747,500	336,096	225,000	1,308,596	530,208	43	-22	1,182	0.53%	-0.12
	49%	563,500	213,698	215,000	992,198	485,086	25	-18	1,182	0.55%	-0.10
	70%	805,000	170,083	205,000	1,180,083	522,071	22	-3	1,182	0.58%	-0.02
	75%	862,500	148,320	160,000	1,170,820	563,633	30	8	1,182	0.74%	0.06
	70%	805,000	148,600	210,000	1,163,600	560,670	24	-6	1,182	0.56%	-0.03
2005	85%	977,500	172,000	75,000	1,224,500	560,547	56	32	1,182	1.58%	0.50
2006	100%	1,150,000	40,000	40,000	1,230,000	560,500	65	9	1,182	2.96%	0.27
Total GW pumpage and net PEC Impact				5,594,000				76	36,642	0.66%	0.50
				5,594,000			67		36,642	0.66%	0.44

NOTE: Need to deduct fallow acres from above or remove as may not be relevant