

Addendum Tables

Addendum Table 1
Dairy Farm Selection for Phase 2 of the Representative Groundwater Monitoring Program
Phase 2 RMP Workplan Addendum

Dairy Farm	County	Physical Facility Address	City, State, Zip Code
Woods Dairy	San Joaquin	14250 N DeVries Rd	Lodi, CA 95242
Durrer Dairy	Stanislaus	8861 Beckwith Rd	Modesto, CA 95358
Genasci Dairy	Stanislaus	6555 Blue Gum Ave	Modesto, CA 95358
Sozinho Jerseys	Fresno	4877 E Mountain View Ave	Selma, CA 93662
Machado Dairy	Fresno	4423 W Central Ave	Fresno, CA 93706
Maple Avenue Dairy	Fresno	19680 S Maple Ave	Laton, CA 93242
Sozinho Dairy #2	Fresno	8489 E Elkhorn Ave	Selma, CA 93662
Zonneveld Dairy Complex	Fresno	1560 Cerini Ave	Laton, CA 93242
Diepersloot Ranch	Madera	14303 Avenue 14	Madera, CA 93637
Troost Dairy	Madera	24868 Road 9	Chowchilla, CA 93610
Giacomazzi Dairy	Kings	9624 6 th Ave	Hanford, CA 93230
Longfellow Farming Co.	Kings	14782 8 th Ave	Hanford, CA 93230
Manuel and Alda Lawrence Dairy	Kings	12871 Kent Ave	Hanford, CA 93230
Richmar Farms Dairy	Kern	1129 E Shafter Rd	Bakersfield, CA 93307
Western Sky Dairy	Kern	18501 Old River Rd	Bakersfield, CA 93311
Aukeman Dairy	Tulare	17297 Road 96	Tulare, CA 93274
Dairyland Farms	Tulare	15982 Road 152	Tipton, CA 93272
Elkhorn Dairy	Tulare	10400 Avenue 368	Visalia, CA 93292
Holstein Farms Dairy	Tulare	4315 Avenue 176	Tulare, CA 93274
Hynes Dairy	Tulare	4497 N Colpien Rd	Tulare, CA 93274
J & A Dairy	Tulare	12212 Avenue 176	Tulare, CA 93274
Sierra View Dairy	Tulare	13376 Avenue 224	Tulare, CA 93274
South Lakes Dairy	Tulare	5595 Avenue 96	Pixley, CA 93256
Creekside Farms Silveira Dairy	Glenn	6259 CR 25	Orland, CA 95963
MTSJ Dairy LP	Glenn	6916 CR 30	Orland, CA 95963
Brentwood Farms	Tehama	24555 Clark Ave	Orland, CA 95963

Addendum Table 2
Dairy Farm Herd Size and Animal Housing
Phase 2 Representative Groundwater Monitoring Program

Dairy Farm	Maximum Number of Animals (head)			Animal Housing (head)	
	Mature Milk Cows	Other (1)	Total	Freestall	Open Lot
Woods Dairy	151	120	271	190	81
Durrer Dairy	tbd	tbd	tbd	tbd	tbd
Genasci Dairy	1,341	1,322	2,663	tbd	tbd
Sozinho Jerseys	900	910	1,810	900	910
Machado Dairy	1,590	1,910	3,500	tbd	tbd
Maple Avenue Dairy	2,000	2,016	4,016	2,000	2,016
Sozinho Dairy #2	1,158	999	2,157	1,158	999
Zonneveld Dairy Complex	4,200	5,908	10,108	0	10,108
Diepersloot Ranch	2,800	2,550	5,350	3,650	1,700
Troost Dairy	2,100	2,072	4,172	2,414	1,758
Giacomazzi Dairy	900	1,215	2,115	tbd	tbd
Longfellow Farming Co.	1,214	1,297	2,511	1,214	1,297
Manuel and Alda Lawrence Dairy	2,165	2,083	4,248	2,165	2,083
Richmar Farms Dairy	2,650	5,500	8,150	2,650	5,500
Western Sky Dairy	4,800	2,450	7,250	4,800	2,450
Aukeman Dairy	2,986	5,502	8,488	2,986	5,502
Dairyland Farms	2,640	1,393	4,033	4,033	0
Elkhorn Dairy	3,115	4,599	7,714	3,745	3,969
Holstein Farms Dairy	2,945	8,485	11,430	11,430	0
Hynes Dairy	1,525	2,105	3,630	0	3,630
J & A Dairy	1,550	425	1,975	0	1,975
Sierra View Dairy	1,640	675	2,315	0	2,315
South Lakes Dairy	5,830	5,688	11,518	5,780	5,738
Creekside Farms Silveira Dairy	700	840	1,540	700	840
MTSJ Dairy LP	863	1,063	1,926	750	1,176
Brentwood Farms	1,265	1,524	2,789	1,478	1,311

(1) dry cows, bred heifers, heifers, calves | tbd = to be determined

**Addendum Table 3
Information on Engineered Lagoon Liners and Existing Monitoring Wells
Phase 2 Representative Groundwater Monitoring Program**

Facility	Information on Engineered Lagoon Liners	Information on Existing Monitoring Wells	Approximate Depth-to-Water (feet, bgs)	Existing MWs			Proposed MWs		
				C	L	F	C	L	F
San Joaquin County									
Woods Dairy	not available from CVRWQCB	3 MWs with construction information	~40	0	1	2	0	0	0
Stanislaus County									
Durrer Dairy	not available from CVRWQCB	UCCE research dairy; 9 MWs with construction information; comprehensive data record	<20	3	4	2	0	0	0
Genasci Dairy	not available from CVRWQCB	UCCE research dairy; 10 MWs with construction information; comprehensive data record	<20	3	5	2	0	0	2
Fresno County									
Sozinho Jerseys	one lagoon with engineered clay liner (10/10 design standard) installed in 1994 (?); lagoon soil testing report by Soil Conservation Service (1994)	4 MWs with construction information; some MWs have been dry; data record 2002-present	median=61; up to 68	2	1	1	0	2	0
Machado Dairy	one lagoon with Tier 2 single 60-mil HDPE liner installed in 2006 adjacent to earthen lagoon; approved CQA Rpt (Provost and Pritchard, 2006)	no existing monitoring wells	~70-80	0	0	0	0	2	0
Maple Avenue Dairy	not available from CVRWQCB	3 MWs with some construction information	70-90	1	1	1	0	0	0
Sozinho Dairy #2	one lagoon with 1-2' thick engineered clay liner (imported material) installed in 1988 (?); construction report (True Engineering, 1989)	4 MWs with construction information; some MWs have been dry; data record 2003-2009	median=62; up to 71	2	1	1	0	1	3
Zonneveld Dairy Complex	east lagoon with engineered clay-liner (1-ft thick) constructed in 1990 according to 10/10 design standard; soil report (Anderson, 1990); rpt. states that west lagoon will be rebuilt in 1991; these lagoons are now combined to one single lagoon; adjacent to settling basin	6 MW sites (4 of these have 2 single piezometer MWs; one has 3 single piezometer MWs); construction information available for most wells	70-90	1	3	8	0	0	0

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				C	L	F	C	L	F
Madera County									
Diepersloot Ranch	not available from CVRWQCB	4 MWs with construction information; data record from 2003-2008	median=97	1	2	1	0	0	0
Troost Dairy	soil resting report concludes sub-soils meet 10/10 design standard (Technicon, 1992)	3 MWs with construction information; data record from 2006-2009	median=80; up to 115	0	1	2	0	0	0
Kings County									
Giacomazzi Dairy	not available	UCCE research dairy; 6 well pairs + 1 well cluster (3 wells) for a total of 15 MWs (9 single MWs and 6 nested wells with 3 casings each); construction information available; comprehensive data record	25 to >90 in shallow MWs	4	7	4	0	0	0
Longfellow Farming Co.	one Tier 2 lagoon with 60-mil HDPE liner (Lagoon # 3) installed in 2010 adjacent to earthen lined lagoon; CQA documentation (Ausenco Vector, 2010)	UCCE research dairy; 7 paired well sites each with one single completion MW and one nested MW; construction information available; comprehensive data record	shallow MWs ~60-90	2	6	6	0	0	0
Manuel and Alda Lawrence Dairy	two lagoons with 40-mil HDPE liners installed in 2005; construction report (Striatus Engineering, 2005)	6 MWs with construction information; data record 2005	<20	2	3	1	0	0	2
Kern County									
Richmar Farms Dairy	lagoons constructed in 1999 with partial clay liners to cover sandy areas (10/10 design standard); lagoon soil report (Soils Engineering Inc., 1999)	6 MWs with some construction information; data record 2003-2008	<20	4	2	0	0	0	3
Western Sky Dairy	lagoons constructed in 2000 with partial clay liners to cover sandy areas (10/10 design standard); lagoon soil report (Soils Engineering, Inc. 2000)	3 MWs with some construction information; data record 2002	~70	1	1	1	0	2	0

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				C	L	F	C	L	F
Tulare County									
Aukeman Dairy	not available from CVRWQCB	3 MWs with some construction information; data record 2006-2010	median=71; max=~80	1	2	0	0	0	0
Dairyland Farms	not available from CVRWQCB	UCCE research dairy; 3 non-UCCE MWs with construction information, data record 2004-2005; UCCE: 1 well pair (1 single MWs and 1 triple nested well), 2 nested wells (1 triple and 1 quadruple)	~110	1	3	3	0	0	0
Elkhorn Dairy	not available from CVRWQCB	UCCE research dairy; 6 MWs with construction information, data record 2000-2008	median=28	3	2	1	0	0	0
Holstein Farms Dairy	not available from CVRWQCB	3 MWs with construction information; data record 2005-2009	median=114; max=131	1	1	1	0	0	0
Hynes Dairy	not available from CVRWQCB	5 MWs with construction information; data record 2007-2012; some wells have been dry	100-130	0	1	4	0	0	0
J & A Dairy	not available from CVRWQCB	3 MWs with construction information; data record 2004-2007	median=53; max=~60	2	0	1	0	0	4
Sierra View Dairy	not available from CVRWQCB	4 MWs with construction information; data record 2003-2010	median=94; max=~130	1	1	2	0	0	0
South Lakes Dairy	lagoons constructed in 2005 with partial clay liners to cover sandy areas (10/10 design standard); (Provost and Pritchard, 2005)	4 MWs with construction information; data record 2006-2009	median=33	3	1	0	0	0	5

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				C	L	F	C	L	F

Glenn County

Creekside Farms Silveira Dairy	not available from CVRWQCB	no existing monitoring wells	<20	0	0	0	0	0	3
MTSJ Dairy LP	not available from CVRWQCB	no existing monitoring wells	20-50	0	0	0	0	0	3

Tehama County

Brentwood Farms	not available from CVRWQCB	no existing monitoring wells	20-50	0	0	0	0	0	3
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Number of Monitoring Wells by Management Unit 38 49 44 0 7 28

Total Number of Existing Monitoring Wells 131

Total Number of Proposed New Monitoring Wells 35

C = corral, L = lagoon, F = field; bgs = below ground surface; MW = monitoring well; CQA = construction quality assurance

The 10/10 design standard refers to California Code of Regulations Title 27, which requires that retention ponds receiving waste from confined animal facilities be lined with or underlain by soils that contain at least 10% clay and not more than 10% gravel.