TABLE 1
GROUNDWATER ELEVATIONS
CENTRAL SANDS DAIRY, LLC

COMMON NAME	CSD-1S		CSD-1D		CSD-2		CSD-3S		CSD-3D		CSD-4	
UNIQUE NUMBER	VY778		VY779		VU928		VU925		VU926		VU927	
TOP OF CASING[1]	963.61		963.53		961.18		963.26		963.07		963.91	
DATE	DTW[2]	GWE[3]	DTW[2]	GWE[3]	DTW[2]	GWE[3]	DTW[2]	GWE[3]	DTW[2]	GWE[3]	DTW[2]	GWE[3]
Dec 14	20.19	943.42	18.68	944.85	15.94	945.24	15.16	948.10	14.99	948.08	17.20	946.71
Apr 15	21.13	942.48	21.19	942.34	16.83	944.35	16.15	947.11	15.98	947.09	18.16	945.75
Jul 15	21.06	942.55	20.98	942.55	16.77	944.41	15.78	947.48	15.56	947.51	19.10	944.81
Oct 15	20.57	943.04	20.51	943.02	16.31	944.87	15.51	947.75	15.31	947.76	17.93	945.98
Dec-15	20.56	943.05	20.47	943.06	16.01	945.17	14.99	948.27	14.77	948.30	17.22	946.69
Mar-16	20.10	943.51	20.01	943.52	15.86	945.32	15.13	948.13	14.95	948.12	17.14	946.77
Jul-16	19.71	943.90	19.60	943.93	15.40	945.78	14.22	949.04	14.01	949.06	16.56	947.35
Aug-16	19.79	943.82	19.69	943.84	15.52	945.66	14.48	948.78	14.25	948.82	16.50	947.41
Aug-16	19.69	943.92	19.60	943.93	15.45	945.73	14.20	949.06	13.99	949.08	18.02	945.89
Sep-16	17.35	946.26	17.29	946.24	13.09	948.09	11.80	951.46	11.59	951.48	14.09	949.82
Nov-16	17.55	946.06	17.46	946.07	13.29	947.89	12.35	950.91	12.13	950.94	14.40	949.51
Nov-16	17.81	945.80	17.72	945.81	13.50	947.68	12.62	950.64	12.39	950.68	14.69	949.22
Dec-16	17.88	945.73	17.96	945.57	13.60	947.58	12.74	950.52	12.53	950.54	14.80	949.11
Jan-17	18.11	945.50	18.00	945.53	13.67	947.51	12.71	950.55	12.49	950.58	14.74	949.17
Feb-17	17.76	945.85	17.67	945.86	13.41	947.77	12.27	950.99	12.08	950.99	14.50	949.41
Mar-17	17.22	946.39	17.14	946.39	12.79	948.39	11.90	951.36	11.68	951.39	14.06	949.85

[1] FEET, MSL

[2] DEPTH TO WATER IN FEET BELOW TOP OF CASING

[3] GROUNDWATER ELEVATION IN FEET, MSL

ED_004625A_00007610-00001

TABLE 1
GROUNDWATER ELEVATIONS
CENTRAL SANDS DAIRY, LLC

COMMON NAME	CSD-5		CSD-6		CSD-7		CSD-8		CSD-9	
UNIQUE NUMBER	VY742		VY715		VY713		VY744		VY811	
TOP OF CASING[1]	962.72		964.57		963.21		965.02		961.73	
DATE	DTW[2]	GWE[3]	DTW[2]	GWE[3]	DTW[2]	GWE[3]	DTW[2]	GWE[3]	DTW[2]	GWE[3]
Aug-16	18.62	944.10	19.56	945.01	17.65	945.56	18.47	946.55		
Aug-16	18.53	944.19	19.50	945.07	17.64	945.57	18.55	946.47		
Sep-16	16.21	946.51	17.20	947.37	15.40	947.81	16.15	948.87		
Nov-16	16.36	946.36	17.36	947.21	15.49	947.72	16.35	948.67	15.20	946.53
Nov-16	16.65	946.07	17.59	946.98	15.75	947.46	16.63	948.39	15.35	946.38
Dec-16	16.71	946.01	17.77	946.80	15.84	947.37	16.77	948.25	15.61	946.12
Jan-17	16.86	945.86	17.90	946.67	15.95	947.26	16.74	948.28	15.72	946.01
Feb-17	16.50	946.22	17.67	946.90	15.76	947.45	16.56	948.46	15.46	946.27
Mar-17	16.02	946.70	17.08	947.49	15.19	948.02	16.05	948.97	14.94	946.79

[1] FEET, MSL
[2] DEPTH TO WATER IN FEET BELOW TOP OF CASING
[3] GROUNDWATER ELEVATION IN FEET, MSL

ED_004625A_00007610-00002

TABLE 2
GROUNDWATER QUALITY
CENTRAL SANDS DAIRY, LLC
CSD-1S

	Potassium mg/L	Chloride mg/L	Nitrogen, NO_2+NO_3 mg/L	Total Kjeldahl nitrogen mg/L	Total organic carbon mg/L	Total dissolved solids mg/L	Ammonia (N) mg/L	Chemical oxygen demand mg/L	Total coliform bacteria	E. Coli
PAL	NS	125	2	NS	NS	NS	0.97	NS	(1)	(1)
ES	NS	250	10	NS	NS	NS	9.7	NS	(1)	(1)
Dec 14	16.8	16.9	**16.1**	3.01	4	192	*2.77*	3.5	**P**	A
Apr 15	18.4	21.1	**14.0**	2.61	2.11	210	*2.63*	<8.5	**P**	A
Jul 15	21	19	**24**	2.3	2.0	300	*2.6*	10	<1	<1
Oct 15	26	19	**22**	3.2	1.8	350	*3.3 B*	9.4 J	2	<1
Mar-16	26		**16**	1.6			*1.1 B*		1	<1
Jul-16	28		**18**	0.86 B			0.55 B		<1	<1
Aug-16	27	19	**17**	1.5 B	1.5	250	*1.3*	<6.1	<1	<1
Sep-16	24	16	**13**	1.9 BF1	3.3	200	*1.7*	9.0 J	<1	<1
Oct-16	21	13	**11**	2.0 B	1.5	280	*1.7*	<6.1	**3**	<1
Nov-16	22	16 B	**12**	2.8 B	1.5	160	*2.5*	<6.1	<1	<1
Dec-16	22	19 B	**16**	3.3 B	1.5	160	*3.1*	<6.1	<1	<1

(1): Presence indicates exceedance
F, J: Result between levels of detection and quantification
F1: MS and/or MSD recovery is outside acceptable limits.
F2 Exceedance of QA/QC control limit.
B: Found in blank and sample.
PAL: Preventive action limit
ES: Enforcement standard
P: Present
A: Absent
NS: No standards established
Itallics indicate PAL exceedance
Bold indicates ES exceedance

ED_004625A_00007610-00003

TABLE 2
GROUNDWATER QUALITY
CENTRAL SANDS DAIRY, LLC
CSD-1S

	Potassium mg/L	Chloride mg/L	Nitrogen, NO_2+NO_3 mg/L	Total Kjeldahl nitrogen mg/L	Total organic carbon mg/L	Total dissolved solids mg/L	Ammonia (N) mg/L	Chemical oxygen demand mg/L	Total coliform bacteria	E. Coli
PAL	NS	125	2	NS	NS	NS	0.97	NS	(1)	(1)
ES	NS	250	10	NS	NS	NS	9.7	NS	(1)	(1)
Jan-17	21	20 B	**16**	3.8 B F1 F2	2.2	220	*3.8*	7.2 J	<1	<1
Feb-17	19	14 B	**12**	2.7	2.2	130	*2.4*	14	<1	<1
Mar-17	18	16 B	**15**	1.8	2.0	140	*2.1*	8.0 J	<1	<1

(1): Presence indicates exceedance
F, J: Result between levels of detection and quantification
F1: MS and/or MSD recovery is outside acceptable limits.
F2 Exceedance of QA/QC control limit.
B: Found in blank and sample.
PAL: Preventive action limit
ES: Enforcement standard
NS: No standards established
Itallics indicate PAL exceedance
Bold indicates ES exceedance

ED_004625A_00007610-00004

TABLE 3
GROUNDWATER QUALITY
CENTRAL SANDS DAIRY, LLC
CSD-1D

	Potassium mg/L	Chloride mg/L	Nitrogen, NO_2+NO_3 mg/L	Total Kjeldahl nitrogen mg/L	Total organic carbon mg/L	Total dissolved solids mg/L	Ammonia (N) mg/L	Chemical oxygen demand mg/L	Total coliform bacteria	E. Coli
PAL	NS	125	2	NS	NS	NS	0.97	NS	(1)	(1)
ES	NS	250	10	NS	NS	NS	9.7	NS	(1)	(1)
Dec 14	20.0	28.1	**14.9**	6.9	5	290	*6.44*	7.2	**P**	A
Apr 15	26.1	38.8	**11.9**	5.77	3.16	324	*5.77*	<8.5	**P**	A
Jul 15	33.0	42	**20**	6.5	3.2	480	*6.7*	9.8 J	**11**	<1
Oct 15	35.0	35	**21**	7.6	2.2	430	*9.5 B*	16	**6**	<1
Mar-16	29		**15**	6.1			*6.5 B*		**38**	<1
Jul-16	23		**21** B	4.2 B			*4.7 B*		**140**	<1
Aug-16	29	39	**19**	4.4 B	2.7	430	*5.6*	9.6 J	**55**	<1
Sep-16	26	38 B	**22**	3.0 B	3.4	450	*3.3*	12	**12**	<1
Oct-16	24	37	**24**	2.8 B	2.6	500	*2.2*	<6.1	**921**	<1
Nov-16	24	43 B	**25**	2.3 B	2.5	420	*1.8*	7.2 J	**11**	<1
Dec-16	28	41 B	**24**	2.3 B	2.2	350	*1.8*	7.8 J	**5**	<1

(1): Presence indicates exceedance
F, J: Result between levels of detection and quantification
F1: MS and/or MSD recovery is outside acceptable limits.
B: Found in blank and sample.
PAL: Preventive action limit
ES: Enforcement standard
NS: No standards established
Italics indicate PAL exceedance
Bold indicates ES exceedance

ED_004625A_00007610-00005

TABLE 3
GROUNDWATER QUALITY
CENTRAL SANDS DAIRY, LLC
CSD-1D

	Potassium mg/L	Chloride mg/L	Nitrogen, NO_2+NO_3 mg/L	Total Kjeldahl nitrogen mg/L	Total organic carbon mg/L	Total dissolved solids mg/L	Ammonia (N) mg/L	Chemical oxygen demand mg/L	Total coliform bacteria	E. Coli
PAL	NS	125	2	NS	NS	NS	0.97	NS	(1)	(1)
ES	NS	250	10	NS	NS	NS	9.7	NS	(1)	(1)
Jan-17	27	39 B	**24**	2.8 B	2.7	390	*2.5*	11	**7**	<1
Feb-17	27	39 F1 B	**24**	3.8	2.8	38	3.2	8.9 J	**1**	<1
Mar-17	29	38 B	**24**	4.6	2.7	330	5.7 B	<6.1	**3**	<1

(1): Presence indicates exceedance
F, J: Result between levels of detection and quantification
F1: MS and/or MSD recovery is outside acceptable limits.
B: Found in blank and sample.
PAL: Preventive action limit
ES: Enforcement standard
NS: No standards established
Italics indicate PAL exceedance
Bold indicates ES exceedance

ED_004625A_00007610-00006

TABLE 4
GROUNDWATER QUALITY
CENTRAL SANDS DAIRY, LLC
CSD-2

	Potassium mg/L	Chloride mg/L	Nitrogen, NO_2+NO_3 mg/L	Total Kjeldahl nitrogen mg/L	Total organic carbon mg/L	Total dissolved solids mg/L	Ammonia (N) mg/L	Chemical oxygen demand mg/L	Total coliform bacteria	E. Coli
PAL	NS	125	2	NS	NS	NS	0.97	NS	(1)	(1)
ES	NS	250	10	NS	NS	NS	9.7	NS	(1)	(1)
Dec 14	9.4	8.6	**10.8**	0.27	4	158	0.03	5.8	**P**	A
Apr 15	9.38	6.11	*8.5*	0.212	2.31	132	<0.015	<8.5	**P**	A
Jul 15	8.4	7.0	*9.6*	0.54	2.0	130	<0.043	<6.1	<1	<1
Oct 15	8.9	5.4	**11**	0.76	1.5	180	0.057 JB	14	**1**	<1
Mar-16	7.1		*8.7*	0.54			0.12 JB		**9**	<1
Jul-16	7.4		*8.0*	0.48 B			0.16 JB		**6**	<1
Aug-16	7.6	7.7	*7.8*	0.53 B	1.4	160	<0.10	<6.1	**26**	<1
Sep-16	7.4	4.4	*4.1*	0.54 B	2.4	130	<0.10	15	**328**	<1
Oct-16	9.5	7.4	*9.4*	0.56 B	1.6	220	<0.10	<6.1	**39**	<1
Nov-16	9.6	9.3 B	**11**	0.62 B	1.6	140	<0.10	7.7 J	**2**	<1
Dec-16	9.5	8.2 B	*9.3*	0.51 B	1.6	98	<0.10	<6.1	<1	<1

(1): Presence indicates exceedance
F, J: Result between levels of detection and quantification
F1: MS and/or MSD recovery is outside acceptable limits.
B: Found in blank and sample.
PAL: Preventive action limit
ES: Enforcement standard
P: Present
A: Absent
NS: No standards established
Itallics indicate PAL exceedance
Bold indicates ES exceedance

ED_004625A_00007610-00007

TABLE 4
GROUNDWATER QUALITY
CENTRAL SANDS DAIRY, LLC
CSD-2

	Potassium mg/L	Chloride mg/L	Nitrogen, NO_2+NO_3 mg/L	Total Kjeldahl nitrogen mg/L	Total organic carbon mg/L	Total dissolved solids mg/L	Ammonia (N) mg/L	Chemical oxygen demand mg/L	Total coliform bacteria	E. Coli
PAL	NS	125	2	NS	NS	NS	0.97	NS	(1)	(1)
ES	NS	250	10	NS	NS	NS	9.7	NS	(1)	(1)
Jan-17	8.9	7.3 B	*8.2*	0.53 B	1.7	100	0.12 J	12	**6**	**1**
Feb-17	7.7	6.9 B	*4.9*	0.35 J	2.1	64	<0.10	9.4 J	**579**	**1**
Mar-17	9.5	7.4 B	*7.5*	0.36 J	1.7	56	0.18 JB	7.0 J	<1	<1

(1): Presence indicates exceedance

F, J: Result between levels of detection and quantification

F1: MS and/or MSD recovery is outside acceptable limits.

B: Found in blank and sample.

PAL: Preventive action limit

ES: Enforcement standard

NS: No standards established

Itallics indicate PAL exceedance

Bold indicates ES exceedance

ED_004625A_00007610-00008

TABLE 5
GROUNDWATER QUALITY
CENTRAL SANDS DAIRY, LLC
CSD-3S

	Potassium mg/L	Chloride mg/L	Nitrogen, NO_2+NO_3 mg/L	Total Kjeldahl nitrogen mg/L	Total organic carbon mg/L	Total dissolved solids mg/L	Ammonia (N) mg/L	Chemical oxygen demand mg/L	Total coliform bacteria	E. Coli
PAL	NS	125	2	NS	NS	NS	0.97	NS	(1)	(1)
ES	NS	250	10	NS	NS	NS	9.7	NS	(1)	(1)
Dec 14	7.1	35.2	**18.8**	0.21	3	216	0.02	6.1	**P**	A
Apr 15	5.06	63.5	**17.2**	0.222 F	1.79	306	<0.0150	<8.5	**P**	A
Jul 15	5.8	48	**24**	0.50	1.6	480	<0.043	11	**5**	**4**
Oct 15	6.7	34	**22**	0.71	1.5	360	0.05 JB	9.4 J	**2**	<1
Mar-16	5.8		**29**	0.62			0.12 JB		**12**	<1
Jul-16	5.7		**34 B**	0.61 B			0.089 JB		**33**	<1
Aug-16	5.6	26	**37**	0.83 B	1.9	410	<0.10	10	**5**	<1
Sep-16	7.0	17	**34**	0.88 B	2.1	350	<0.10	10	**1**	<1
Oct-16	9.4	16	**38**	0.41 B	1.9	470	<0.10	<6.1	**260**	<1
Nov-16	5.3	17 B	**35**	0.78 B	1.7	280	<0.10	7.2 J	<1	<1
Dec-16	6.1	19 B	**35**	0.56 B	1.7 B	220	0.11 J	<6.1	<1	<1

(1): Presence indicates exceedance
F, J: Result between levels of detection and quantification
F1: MS and/or MSD recovery is outside acceptable limits.
B: Found in blank and sample.
PAL: Preventive action limit
ES: Enforcement standard
P: Present
A: Absent
NS: No standards established
Itallics indicate PAL exceedance
Bold indicates ES exceedance

ED_004625A_00007610-00009

TABLE 5
GROUNDWATER QUALITY
CENTRAL SANDS DAIRY, LLC
CSD-3S

	Potassium mg/L	Chloride mg/L	Nitrogen, NO_2+NO_3 mg/L	Total Kjeldahl nitrogen mg/L	Total organic carbon mg/L	Total dissolved solids mg/L	Ammonia (N) mg/L	Chemical oxygen demand mg/L	Total coliform bacteria	E. Coli
PAL	NS	125	2	NS	NS	NS	0.97	NS	(1)	(1)
ES	NS	250	10	NS	NS	NS	9.7	NS	(1)	(1)
Jan-17	5.9	17 B	**30**	1.0 B	1.7	270	0.28	8.3 J	**1**	<1
Feb-17	6.1	18 B	**26**	0.88	2.1	210	<0.10	8.4 J	**116**	<1
Mar-17	6.5	38 B	**24**	0.58	1.6	230	0.19 JB	8.0 J	<1	<1

(1): Presence indicates exceedance
F, J: Result between levels of detection and quantification
F1: MS and/or MSD recovery is outside acceptable limits.
B: Found in blank and sample.
PAL: Preventive action limit
ES: Enforcement standard
NS: No standards established
Itallics indicate PAL exceedance
Bold indicates ES exceedance

ED_004625A_00007610-00010

TABLE 6
GROUNDWATER QUALITY
CENTRAL SANDS DAIRY, LLC
CSD-3D

	Potassium mg/L	Chloride mg/L	Nitrogen, NO_2+NO_3 mg/L	Total Kjeldahl nitrogen mg/L	Total organic carbon mg/L	Total dissolved solids mg/L	Ammonia (N) mg/L	Chemical oxygen demand mg/L	Total coliform bacteria	E. Coli
PAL	NS	125	2	NS	NS	NS	0.97	NS	(1)	(1)
ES	NS	250	10	NS	NS	NS	9.7	NS	(1)	(1)
Dec 14	0.7	1.9	0.3	0.11	2	112	0.02	6.1	**P**	**P**
Apr 15	1.28	6.37	1.25	<0.110	1.03	136	0.0157 F	22.9 F	**P**	**P**
Jul 15	0.88	5.1	*2.3*	<0.29	0.65J	74	0.076 J	8.0 J	**210**	<1
Oct 15	0.54	5.2	1.7	0.57	0.33 J	150	0.056 JB	<6.1	**11**	<1
Mar-16	1.1		*9.1*	0.47			0.13 JB		**38**	<1
Jul-16	1.0		*8.4*	0.42 B			0.071 JB		**82**	<1
Aug-16	1.4	9.2	**19**	0.54 B	0.39 J	260	0.51	<6.1	**60**	<1
Sep-16	0.95	4.1 B	*6.1*	0.45 B	0.58 J	100	<0.10	8.5 J	**51**	<1
Oct-16	0.95	4.5	*7.7*	0.48 B	0.41 J	180	<0.10	<6.1	**50**	<1
Nov-16	7.2	5.7 B	*10*	0.38 JB	0.43 J	98	0.11 J	8.2 J	<1	<1
Dec-16	1.3	9.2 B	**17**	0.44 B	0.51 JB	110	<0.10	8.8 J	<1	<1

(1): Presence indicates exceedance
F, J: Result between levels of detection and quantification
F1: MS and/or MSD recovery is outside acceptable limits.
B: Found in blank and sample.
PAL: Preventive action limit
ES: Enforcement standard
P: Present
A: Absent
NS: No standards established
Italics indicate PAL exceedance
Bold indicates ES exceedance

ED_004625A_00007610-00011

TABLE 6
GROUNDWATER QUALITY
CENTRAL SANDS DAIRY, LLC
CSD-3D

	Potassium mg/L	Chloride mg/L	Nitrogen, NO_2+NO_3 mg/L	Total Kjeldahl nitrogen mg/L	Total organic carbon mg/L	Total dissolved solids mg/L	Ammonia (N) mg/L	Chemical oxygen demand mg/L	Total coliform bacteria	E. Coli
PAL	NS	125	2	NS	NS	NS	0.97	NS	(1)	(1)
ES	NS	250	10	NS	NS	NS	9.7	NS	(1)	(1)
Jan-17	1.4	8.8 B	**18**	0.53 B	0.32 J	180	0.17 J	<6.1	**248**	<1
Feb-17	1.5	10 B	**20**	0.60	0.53 J	150	<0.10	<6.1	<1	<1
Mar-17	1.6	10 B	**18**	0.36 J	0.53 J	120	0.19 J	<6.1	<1	<1

(1): Presence indicates exceedance
F, J: Result between levels of detection and quantification
F1: MS and/or MSD recovery is outside acceptable limits.
B: Found in blank and sample.
PAL: Preventive action limit
ES: Enforcement standard
NS: No standards established
Itallics indicate PAL exceedance
Bold indicates ES exceedance

ED_004625A_00007610-00012

TABLE 7
GROUNDWATER QUALITY
CENTRAL SAND DAIRY, LLC
CSD-4

	Potassium mg/L	Chloride mg/L	Nitrogen, NO_2+NO_3 mg/L	Total Kjeldahl nitrogen mg/L	Total organic carbon mg/L	Total dissolved solids mg/L	Ammonia (N) mg/L	Chemical oxygen demand mg/L	Total coliform bacteria	E. Coli
PAL	NS	125	2	NS	NS	NS	0.97	NS	(1)	(1)
ES	NS	250	10	NS	NS	NS	9.7	NS	(1)	(1)
Dec 14	31.1	50.4	**62.5**	0.63	6	628	0.01	12.4	**P**	A
	31.1	50.8	**60.0**	0.63	6	640	0.01	12.1	**P**	A
Apr 15	44.0	58.1	**69.5**	0.505	4.67	770	<0.0150	9.27 F	**P**	A
	44.1	58.0	**69.3**	0.132 F	4.55	704	<0.0150	9.98 F	**P**	A
Jul 15	44	52	**77**	1.2	4.0	790	<0.043	13	<1	<1
	46	51.0	**77**	1.1	4.0	830	<0.043	14	<1	<1
Oct 15	36	24	**38**	1.0	2.8	450	0.072	15	3	<1
	35	25	**36**	0.62	2.8	500	0.062 JB	15	1	<1

(1): Presence indicates exceedance
F, J: Result between levels of detection and quantification
F1: MS and/or MSD recovery is outside acceptable limits.
B: Found in blank and sample.
PAL: Preventive action limit
ES: Enforcement standard
P: Present
A: Absent
NS: No standards established
Itallics indicate PAL exceedance
Bold indicates ES exceedance

ED_004625A_00007610-00013

TABLE 7
GROUNDWATER QUALITY
CENTRAL SAND DAIRY, LLC
CSD-4

	Potassium mg/L	Chloride mg/L	Nitrogen, NO_2+NO_3 mg/L	Total Kjeldahl nitrogen mg/L	Total organic carbon mg/L	Total dissolved solids mg/L	Ammonia (N) mg/L	Chemical oxygen demand mg/L	Total coliform bacteria	E. Coli
PAL	NS	125	2	NS	NS	NS	0.97	NS	(1)	(1)
ES	NS	250	10	NS	NS	NS	9.7	NS	(1)	(1)
Mar-16	40		**54**	1.1			0.15 JB		**24**	<1
	41		**46**	1.3			0.14 JB		**19**	<1
Jul-16	34		**48**	0.79 B			0.045 JB		**2**	<1
	33		**49 B**	0.74 B			0.045 JB		**5**	<1
Aug-16	23	17	**29**	0.87 B	2.1	380	<0.10	6.6 J	**14**	<1
	22	17	**27**	0.71 B	2.1	440	0.10 J	11	**9**	<1
Sep-16	34	43	**58**	1.3 B	3.1	670	<0.10	13	**5**	<1
	34	43 B	**53**	1.4 B	3.1	660	<0.10	14	**3**	<1
Oct-16	35	49	**58**	1.2 B	3.6	780	<0.10	12	**99**	<1
	31	49	**56**	0.86 B	3.6	820	0.12 J	6.7 J	**102**	<1

(1): Presence indicates exceedance
F, J: Result between levels of detection and quantification
F1: MS and/or MSD recovery is outside acceptable limits.
B: Found in blank and sample.
PAL: Preventive action limit
ES: Enforcement standard
NS: No standards established
Itallics indicate PAL exceedance
Bold indicates ES exceedance

ED_004625A_00007610-00014

TABLE 7
GROUNDWATER QUALITY
CENTRAL SAND DAIRY, LLC
CSD-4

	Potassium mg/L	Chloride mg/L	Nitrogen, NO_2+NO_3 mg/L	Total Kjeldahl nitrogen mg/L	Total organic carbon mg/L	Total dissolved solids mg/L	Ammonia (N) mg/L	Chemical oxygen demand mg/L	Total coliform bacteria	E. Coli
PAL	NS	125	2	NS	NS	NS	0.97	NS	(1)	(1)
ES	NS	250	10	NS	NS	NS	9.7	NS	(1)	(1)
Nov-16	37	60 B	**70**	0.77 B	3.6	710	<0.10	7.7 J	**1**	<1
	43	52 B	**67**	0.95 B	3.6	680	0.11 J	11	**1**	<1
Dec-16	41	60 B	**75**	1.5 B	3.9 B	680	<0.10	19	<1	<1
	40	58 B	**69**	0.78 B	4.1 B	670	<0.10	11	<1	<1
Jan-17	37	44 B	**56**	0.99 B	4.0	720	0.14 J	13	<1	<1
	37	46 B	**58**	0.66 B	4.0	660	<0.10	14	<1	<1
Feb-17	40	48 B	**54**	0.71	4.1	570	<0.10	15	<1	<1
	39	47 B	**52**	0.86 F1 F2	4.2	590	<0.10	13	<1	<1
Mar-17	38	40 B	**40**	0.87	3.8	530	0.16 JB	13	<1	<1
	39	41 B	**42**	1.0	3.8	530	0.19 JB	14	<1	<1

(1): Presence indicates exceedance
F, J: Result between levels of detection and quantification
F1: MS and/or MSD recovery is outside acceptable limits.
B: Found in blank and sample.
PAL: Preventive action limit
ES: Enforcement standard
NS: No standards established
Itallics indicate PAL exceedance
Bold indicates ES exceedance

ED_004625A_00007610-00015

TABLE 8
GROUNDWATER QUALITY
CENTRAL SANDS DAIRY, LLC
CSD-5

	Potassium mg/L	Chloride mg/L	Nitrogen, NO_2+NO_3 mg/L	Total Kjeldahl nitrogen mg/L	Total organic carbon mg/L	Total dissolved solids mg/L	Ammonia (N) mg/L	Chemical oxygen demand mg/L	Total coliform bacteria	E. Coli
PAL	NS	125	2	NS	NS	NS	0.97	NS	(1)	(1)
ES	NS	250	10	NS	NS	NS	9.7	NS	(1)	(1)
Aug-16	24	54	**12**	3.1 B	1.8	280	*3.3*	15	**1986**	<1
Sep-16	37	43	*4.0*	3.6 B	2.6	200	*3.8*	12	**1414**	<1
Oct-16	24	37	*4.3*	2.7 B	2.3	290	*2.4*	<6.1	**155**	<1
Nov-16	27	50 B	*5.3*	1.9 B	2.3	230	*1.6*	12	**7**	<1
Dec-16	19	44 B	*3.3*	1.1 B	2.1 B	240	0.76	6.2 J	**4**	<1
Jan-17	13	19 B	1.8	0.69 B	1.6	140	0.43	9.8 J	**9**	<1
Feb-17	11	9.3 B	0.77	0.32 J	1.5	50	0.22	<6.1	**2**	<1
Mar-17	9.2	9.6 B	0.86	0.30 J	1.3	8.0 J	0.31 B	12	**2**	<1

(1): Presence indicates exceedance
F, J: Result between levels of detection and quantification
F1: MS and/or MSD recovery is outside acceptable limits.
B: Found in blank and sample.
PAL: Preventive action limit
ES: Enforcement standard
NS: No standards established
Italics indicate PAL exceedance
Bold indicates ES exceedance

ED_004625A_00007610-00016

TABLE 9
GROUNDWATER QUALITY
CENTRAL SANDS DAIRY, LLC
CSD-6

	Potassium mg/L	Chloride mg/L	Nitrogen, NO_2+NO_3 mg/L	Total Kjeldahl nitrogen mg/L	Total organic carbon mg/L	Total dissolved solids mg/L	Ammonia (N) mg/L	Chemical oxygen demand mg/L	Total coliform bacteria	E. Coli
PAL	NS	125	2	NS	NS	NS	0.97	NS	(1)	(1)
ES	NS	250	10	NS	NS	NS	9.7	NS	(1)	(1)
Aug-16	110	40	**58**	0.96 B	5.2	790	<0.10	18	**>2420**	<1
Sep-16	100	33	**47**	1.2 B	4.3	620	<0.10	15	**488**	<1
Oct-16	100	47	**50**	1.0 B	4.8	730	<0.10	12	**67**	<1
Nov-16	84	33 B	**55**	0.72 B	3.8	510	<0.10	8.7 J	**22**	<1
Dec-16	71	27 B	**38**	0.93 B	4.6 B	430	<0.10	27	**28**	<1
Jan-17	72	22 B	**38**	1.1 B	3.2	460	<0.10	13	**27**	<1
Feb-17	69	40 B	**33**	0.47	4.0	560	<0.10	13	**1**	<1
Mar-17	73	33 B	**37**	0.58	3.5	360	0.19 JB	15	**6**	<1

(1): Presence indicates exceedance
F, J: Result between levels of detection and quantification
F1: MS and/or MSD recovery is outside acceptable limits.
B: Found in blank and sample.
PAL: Preventive action limit
ES: Enforcement standard
NS: No standards established
Italics indicate PAL exceedance
Bold indicates ES exceedance

ED_004625A_00007610-00017

TABLE 10
GROUNDWATER QUALITY
CENTRAL SANDS DAIRY, LLC
CSD-7

	Potassium mg/L	Chloride mg/L	Nitrogen, NO_2+NO_3 mg/L	Total Kjeldahl nitrogen mg/L	Total organic carbon mg/L	Total dissolved solids mg/L	Ammonia (N) mg/L	Chemical oxygen demand mg/L	Total coliform bacteria	E. Coli
PAL	NS	125	2	NS	NS	NS	0.97	NS	(1)	(1)
ES	NS	250	10	NS	NS	NS	9.7	NS	(1)	(1)
Aug-16	65	28	**43**	1.8 B	14	540	0.22	33	**>2420**	<1
Sep-16	68	23	**39**	1.5 B	10	500	0.18 J	26	**>2420**	<1
Oct-16	80	32	**50**	1.6 B	8.7	670	0.32	22	**548**	**4**
Nov-16	85	31 B	**54**	1.7 B	10	590	0.59	29	**>2420**	**7**
Dec-16	88	61 B	**31**	9.7 B	180 B	720	0.86	520	**>2420**	**205**
Jan-17	71	48 B	**48**	2.1 B	13	610	0.49 B	40	**>2420**	**2**
Feb-17	76	24 B	**48**	1.4 B	11	360	0.22	32	**>2420**	<1
Mar-17	72	50 B	**44**	0.82	6	500	0.36 B	21	**921**	**12**

(1): Presence indicates exceedance
F, J: Result between levels of detection and quantification
F1: MS and/or MSD recovery is outside acceptable limits.
B: Found in blank and sample.
PAL: Preventive action limit
ES: Enforcement standard
NS: No standards established
Italics indicate PAL exceedance
Bold indicates ES exceedance

ED_004625A_00007610-00018

TABLE 11
GROUNDWATER QUALITY
CENTRAL SANDS DAIRY, LLC
CSD-8

	Potassium mg/L	Chloride mg/L	Nitrogen, NO_2+NO_3 mg/L	Total Kjeldahl nitrogen mg/L	Total organic carbon mg/L	Total dissolved solids mg/L	Ammonia (N) mg/L	Chemical oxygen demand mg/L	Total coliform bacteria	E. Coli
PAL	NS	125	2	NS	NS	NS	0.97	NS	(1)	(1)
ES	NS	250	10	NS	NS	NS	9.7	NS	(1)	(1)
Aug-16	42	23	**36**	0.85 B	4.1	620	<0.10	11	**921**	<1
Sep-16	51	22	**42**	0.83 BF1	3.8	580	<0.10	11	**25**	<1
Oct-16	63	31	**64**	0.78 B	5.2	850	0.11 J	10	**88**	<1
Nov-16	65	36 B	**48**	0.87 B	5.5	690	0.10 J	17	**1**	<1
Dec-16	63	43 B	**57**	1.5 B	4.9 B	560	<0.10	14	**1**	<1
Jan-17	65	39 B	**55**	1.3 B	6.0	760	0.23 B	22	**1**	<1
Feb-17	64	38 B	**45**	0.86 B	6.1	680	0.10 J	18	**4**	<1
Mar-17	64	40 B	**53**	0.72	5.5	590	<0.10	21	<1	<1

(1): Presence indicates exceedance
F, J: Result between levels of detection and quantification
F1: MS and/or MSD recovery is outside acceptable limits.
B: Found in blank and sample.
PAL: Preventive action limit
ES: Enforcement standard
NS: No standards established
Italics indicate PAL exceedance
Bold indicates ES exceedance

ED_004625A_00007610-00019

TABLE 12
GROUNDWATER QUALITY
CENTRAL SANDS DAIRY, LLC
CSD-9

	Potassium mg/L	Chloride mg/L	Nitrogen, NO_2+NO_3 mg/L	Total Kjeldahl nitrogen mg/L	Total organic carbon mg/L	Total dissolved solids mg/L	Ammonia (N) mg/L	Chemical oxygen demand mg/L	Total coliform bacteria	E. Coli
PAL	NS	125	2	NS	NS	NS	0.97	NS	(1)	(1)
ES	NS	250	10	NS	NS	NS	9.7	NS	(1)	(1)
Oct-16	24	6.8	*8.1*	0.58 B	4.1	260	0.10 J	8.2 J	**980**	<1
	25	7.0	*8.3*	0.68 B	4.1	240	<0.10	6.7 J	**613**	<1
Nov-16	28	12	**16**	0.73 B	3.5	200	<0.10	15	**>2420**	<1
	29	12	**14**	0.82 B	3.5	180	0.12 J	13	**>2420**	<1
Dec-16	22	7.9 B	*10*	0.50 B	2.7 B	110	<0.10	9.3 J	**81**	<1
	21	8.3 B	*9.9*	0.51 B	2.6 B	100	<0.10	8.3 J	**61**	<1
Jan-17	17	6.5 B	*8.1*	0.67 B	2.9	150	0.24 B	11	**12**	<1
	17	6.2 B	*6.2*	0.61 B	2.9	140	0.24 B	22	**20**	<1
Feb-17	15	6.0 B	*7.7*	0.66 B	2.4	78	<0.10	17	**6**	<1
	13	5.9 B	*7.3*	0.55 B	2.4	84	<0.10	8.9 J	**2**	<1
Mar-17	19	6.8 B	*9.1*	0.48	2.4	78	<0.10	10	**4**	<1
	18	7.3 B	*8.8*	0.50	2.4	70	<0.10	11	**5**	<1

(1): Presence indicates exceedance
F, J: Result between levels of detection and quantification
F1: MS and/or MSD recovery is outside acceptable limits.
B: Found in blank and sample.
PAL: Preventive action limit
ES: Enforcement standard
NS: No standards established
Itallics indicate PAL exceedance
Bold indicates ES exceedance

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