RJN Environmental Services, LLC
Surface Water Studies
Groundwater Studies
Site Investigations

April 14, 2017

Ms. Laura Chern, P.G.
Wisconsin Department of Natural Resources
PO Box 7921
Madison, Wisconsin 53707-7921

RE: Groundwater Monitoring Network Documentation
Results of January 2017 Groundwater Sampling
Central Sands Dairy, LLC
WPDES Permit No. WI-00063533-02-1
Town of Armenia, Juneau County, Wisconsin

Dear Ms. Chern:

Pursuant to the groundwater monitoring schedule contained in WPDES Permit WI-0063533-02-1 for the Central Sands Dairy (CSD) facility, RJN Environmental Services, LLC (RJN) sampled the CSD site groundwater monitoring wells on March 22, 2017. Also on that date, the data loggers installed in wells CSD-1S, CSD-5, CSD-6, CSD-7 and CSD-9 were downloaded.

Groundwater Flow

Table 1 summarizes groundwater elevations as measured during all sampling events since the first phase of the groundwater monitoring network was installed. Figure 1 shows the water table as measured on March 22, 2017. As in all past measurements, groundwater flow remains in a northwest-to-southeast direction, with a very uniform gradient across the site. Figure 2 presents hydrographs of all wells, dating back to the construction of the initial monitoring network in October 2014. The water level trends continue to be consistent from well-to-well.

Hourly water levels for the wells with pressure transducers and data loggers are plotted on Figure 3, for the time period since the download in January, which was provided in last month's report. As with the February downloads, the water levels appear to be rising uniformly in the wells. Also, as in previous months, the plot shows that the fluctuations are virtually identical from well-to-well.

Groundwater Quality

Field data sheets for the sampling event are provided in Attachment A. Water quality data are presented in Tables 2 through 12. Laboratory reports for the inorganic parameters are

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Phone: 608.576.3001

provided in Attachment B, and reports for total coliform and E. coli are provided in Attachment C. The water quality in CSD-4 and CSD-8 continue to indicate that contaminants are migrating onto the CSD property from upgradient.

Wells CSD-5 and CSD-9, which are directly downgradient from the waste storage facility (WSF) continue to have some of the lowest concentrations of nitrates, again, indicating that the WSF is not a source of contaminants.

Groundwater monitoring will proceed in accordance with the schedule in WPDES Permit WI-0063533-02-1.

Sincerely,
RJN ENVIRONMENTAL SERVICES, LLC

Robert J. Nauta, P.G.
Hydrogeologist

Cc: Ex. 6 Personal Privacy (PP) - Central Sands Dairy
Cameron Field, Esq. – Michael, Best & Friedrich

TABLES

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

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

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

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.
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ES: Enforcement standard
NS: No standards established
Itallics indicate PAL exceedance
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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
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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.
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PAL: Preventive action limit
ES: Enforcement standard
NS: No standards established
Itallics indicate PAL exceedance
Bold indicates ES exceedance

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
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P: Present
A: Absent
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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

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
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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

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
Itallics indicate PAL exceedance
Bold indicates ES exceedance

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

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

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

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

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
Itallics indicate PAL exceedance
Bold indicates ES exceedance

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
Itallics indicate PAL exceedance
Bold indicates ES exceedance

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
Itallics indicate PAL exceedance
Bold indicates ES exceedance

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

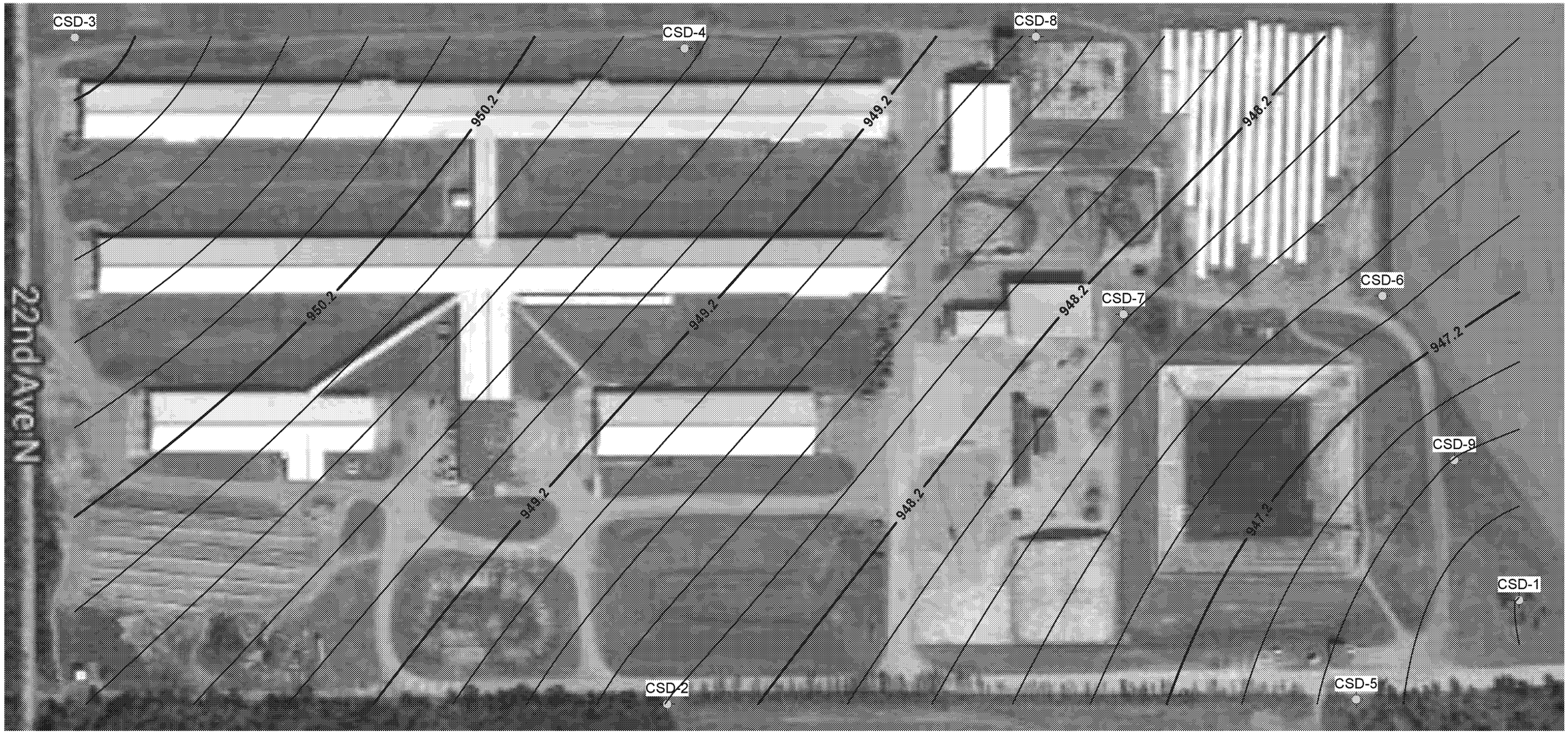
(1): Presence indicates exceedance
F, J: Result between levels of detection and quantification
F1: MS and/or MSD recovery is outside acceptable limits.
B: Found in blank and sample.
PAL: Preventive action limit
ES: Enforcement standard
NS: No standards established
Itallics indicate PAL exceedance
Bold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

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

FIGURES



WATER TABLE MONITORING WELL

946 GROUNDWATER ELEVATION (FT, MSL)

AERIAL PHOTO: GOOGLE MAPS

SCALE IN FEET

0 100 200 300 400

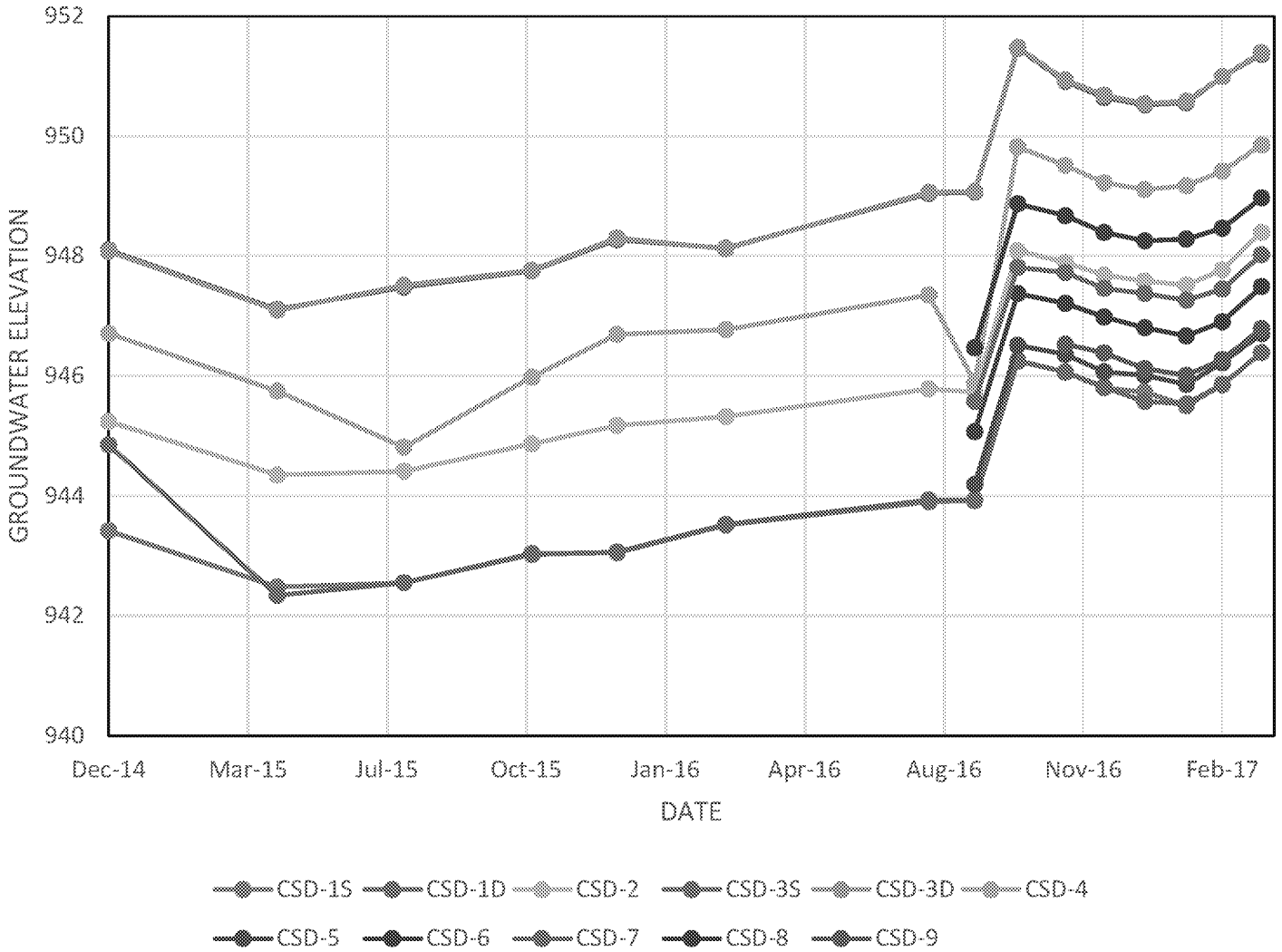
NORTH

RJN Environmental Services, LLC
Surface Water Studies
Groundwater Studies
Site Investigations
4811 MONONA DRIVE, MONONA, WISCONSIN 53716

CENTRAL SANDS DAIRY, LLC
TOWN OF ARMENIA, WISCONSIN
WATER TABLE - 3/22/17

FIGURE 1

DRAWN BY	PROJ. No.	DATE	FILE
RN	14-203	23 MAR 17	WTR TBL 0317



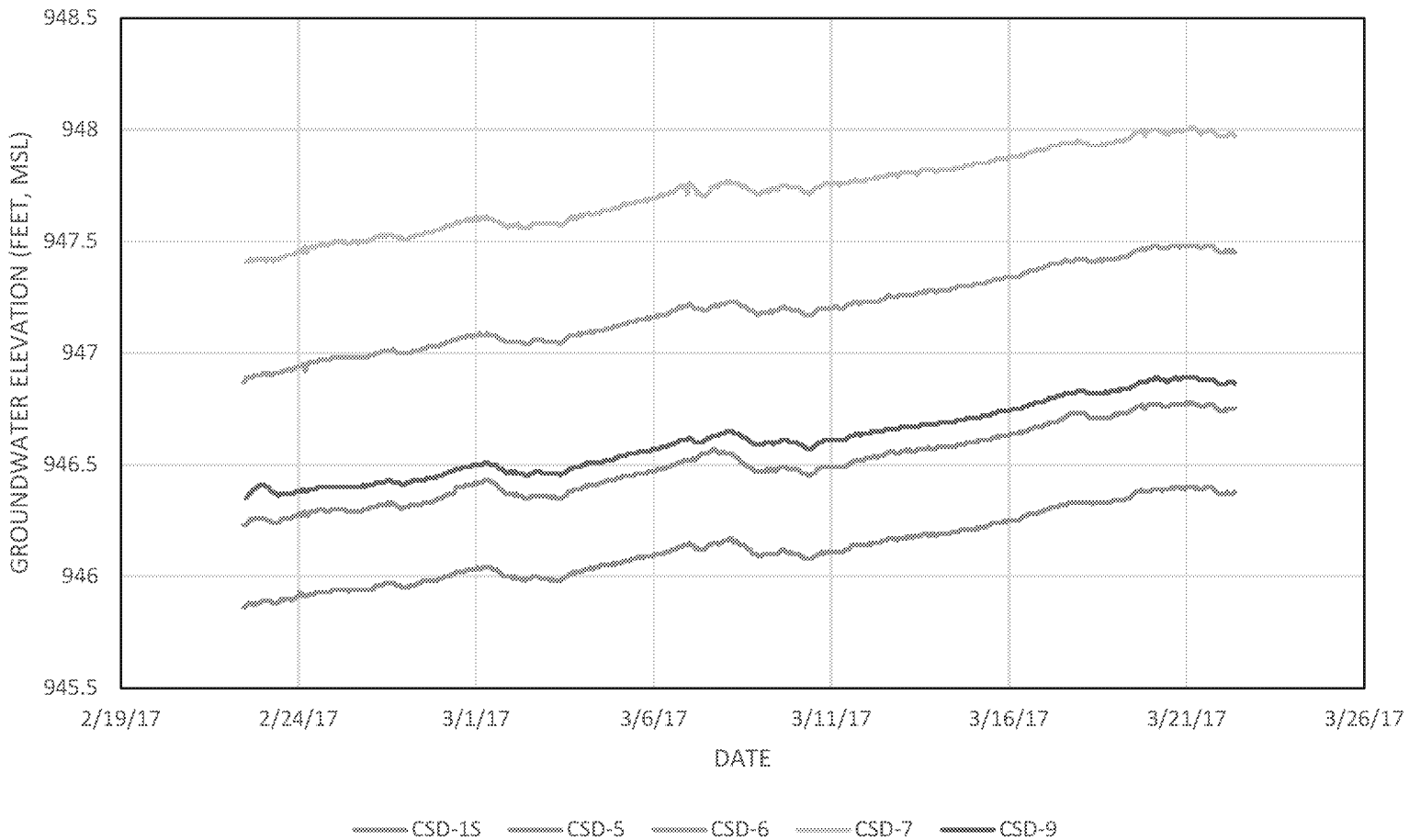
NOTE: WATER LEVELS IN WELLS CSD-3S AND CSD-3D ARE VIRTUALLY IDENTICAL, SO THEY APPEAR AS A SINGLE LINE.

RJN Environmental Services, LLC
Surface Water Studies
Groundwater Studies
Site Investigations
4811 MONONA DRIVE, MONONA, WISCONSIN 53716

CENTRAL SANDS DAIRY, LLC
TOWN OF ARMENIA, WISCONSIN
HYDROGRAPHS

FIGURE 2

DRAWN BY	PROJ. No.	DATE	FILE
RN	14-203	23 MAR 17	HYDROGRAPH



RJN Environmental Services, LLC
Surface Water Studies
Groundwater Studies
Site Investigations
4811 MONONA DRIVE, MONONA, WISCONSIN 53716

CENTRAL SANDS DAIRY, LLC
TOWN OF ARMENIA, WISCONSIN
HOURLY RECORDINGS OF WATER LEVELS
MARCH 2017

FIGURE 3

DRAWN BY	PROJ. No.	DATE	FILE
RN	14-203	10 MAR 17	LOGGERS

ATTACHMENT A

FIELD NOTES

RJN Environmental Services, LLC

Well number:	CSD-15
	VY778

Groundwater Sample Collection Record

Client:	Central Sands Dairy	Date:	3/22/17
Project No.:	14-203	Time start:	1325
Site Location:	Juneau County, WI	Finish:	1345
Wether conditions:			

Water Level Data: Well: X Piez: _____

Total Depth: 28.32 Diameter: 2" Water column: 11.1

Depth to water: 17.22 Well volume: 1.77 gal.

Purging data:

Method: Low flow

Acceptance criteria:

Minimum purge volume (3 volumes): 5.5 gal.

Stabilization: pH: +/- 0.1

Temp: +/- 10%

Cond: +/- 5%

Removed	T	pH	mS/cm
2	9.92	5.80	0.287
4	10.07	5.71	0.305
6	10.05	5.62	0.304
8	10.05	5.67	0.305

Sampled

By: Nauta

RJN Environmental Services, LLC

Well number:	CSD-1D
	VY779

Groundwater Sample Collection Record

Client:	Central Sands Dairy	Date:	3/22
Project No.:	14-203	Time start:	1215
Site Location:	Juneau County, WI	Finish:	1320
Wether conditions:			

Water Level Data: Well: _____ Piez: X

Total Depth: 49.57 Diameter: 2" Water column: 32.43

Depth to water: 17.14 Well volume: 5.2 gal.

Purging data:

Method: Low flow

Acceptance criteria:

Minimum purge volume (3 volumes): 15.6 gal.

Stabilization: pH: +/- 0.1

Temp: +/- 10%

Cond: +/- 5%

Removed	T	pH	mS/cm
5.25	11.42	6.16	0.690
10.5	11.51	6.17	0.693
15.75	11.52	6.21	0.684
~~et.0~~			

Sampled by: Nauta

RJN Environmental Services, LLC

Well number:	CSD-2
	VU928

Groundwater Sample Collection Record

Client:	Central Sands Dairy	Date:	3/22
Project No.:	14-203	Time start:	1400
Site Location:	Juneau County, WI	Finish:	1425
Wether conditions:			

Water Level Data: Well: X Piez: _____

Total Depth: 26.22 Diameter: 2" Water column: 13.43

Depth to water: 12.79 Well volume: 2.1 gal.

Purging data:

Method: Low flow

Acceptance criteria:

Minimum purge volume (3 volumes): 6.3 gal.

Stabilization: pH: +/- 0.1

Temp: +/- 10%

Cond: +/- 5%

Removed	T	pH	mS/cm
2	9.36	5.52	0.174
4	9.37	5.42	0.186
6	9.38	5.39	0.189
8	9.41	5.36	0.191

Sampled by: Nauta

RJN Environmental Services, LLC

Well number:	CSD-3S
	VU925

Groundwater Sample Collection Record

Client:	Central Sands Dairy	Date:	3/22
Project No.:	14-203	Time start:	0800
Site Location:	Juneau County, WI	Finish:	0820
Wether conditions:			

Water Level Data: Well: X Piez: _____

Total Depth: 25.51 Diameter: 2" Water column: 13.61

Depth to water: 11.90 Well volume: 2.2 gal.

Purging data:

Method: Low flow

Acceptance criteria:

Minimum purge volume (3 volumes): 6.6 gal.

Stabilization: pH: +/- 0.1

Temp: +/- 10%

Cond: +/- 5%

Removed	T	pH	mS/cm
2.5	8.65	4.99	0.403
5.0	8.69	4.96	0.397
7.5	8.92	4.94	0.397
~~10.0~~			

Sampled by: Nauta

RJN Environmental Services, LLC

Well number:	CSD-3D VU926

Groundwater Sample Collection Record

Client:	Central Sands Dairy	Date:	3/22
Project No.:	14-203	Time start:	0715
Site Location:	Juneau County, WI	Finish:	0750
Wether conditions:			

Water Level Data: Well: _____ Piez: X

Total Depth: 46.80 Diameter: 2" Water column: 35.12

Depth to water: 11.68 Well volume: 5.6 gal.

Purging data:

Method: Low flow

Acceptance criteria:

Minimum purge volume (3 volumes): _____ gal.

Stabilization: pH: +/- 0.1

Temp: +/- 10%

Cond: +/- 5%

Removed	T	pH	mS/cm
6	9.81	7.00	0.220
12	9.82	6.17	0.217
18	9.84	6.13	0.216
24	9.83	6.12	0.217

Sampled by: Nauta

RJN Environmental Services, LLC

Well number:	CSD-4
	VU927

Groundwater Sample Collection Record

Client:	Central Sands Dairy	Date:	3/22
Project No.:	14-203	Time start:	0835
Site Location:	Juneau County, WI	Finish:	0850
Wether conditions:			

Water Level Data: Well: X Piez: _____

Total Depth: 26.03 Diameter: 2" Water column: 11.97

Depth to water: 14.06 Well volume: 1.9 gal.

Purging data:

Method: Low flow

Acceptance criteria:

Minimum purge volume (3 volumes): 6 gal.

Stabilization: pH: +/- 0.1

Temp: +/- 10%

Cond: +/- 5%

Removed	T	pH	mS/cm
2	8.73	4.90	0.832
4	8.85	4.87	0.837
6	8.89	4.85	0.833
~~8~~			

Sampled by: Nauta

RJN Environmental Services, LLC

Well number:	CSD-5
	VY742

Groundwater Sample Collection Record

Client:	Central Sands Dairy	Date:	3/22
Project No.:	14-203	Time start:	1440
Site Location:	Juneau County, WI	Finish:	1500
Wether conditions:			

Water Level Data: Well: X Piez: _____

Total Depth: 24.9 Diameter: 2" Water column: 8.88

Depth to water: 16.02 Well volume: 1.4 gal.

Purging data:

Method: Low flow

Acceptance criteria:

Minimum purge volume (3 volumes): 4.2 gal.

Stabilization: pH: +/- 0.1

Temp: +/- 10%

Cond: +/- 5%

Removed	T	pH	mS/cm
1.5	9.61	5.53	0.125
3.0	9.61	5.51	0.122
4.5	9.62	5.50	0.126
6.0			

Sampled by: Nauta

RJN Environmental Services, LLC

Well number:	CSD-6
	VY715

Groundwater Sample Collection Record

Client:	Central Sands Dairy	Date:	3/22
Project No.:	14-203	Time start:	1105
Site Location:	Juneau County, WI	Finish:	1120
Wether conditions:			

Water Level Data: Well: X Piez: _____

Total Depth: 23.7 Diameter: 2" Water column: 6.62

Depth to water: 17.08 Well volume: 1.06 gal.

Purging data:

Method: Low flow

Acceptance criteria:

Minimum purge volume (3 volumes): 3 gal.

Stabilization: pH: +/- 0.1

Temp: +/- 10%

Cond: +/- 5%

Removed	T	pH	mS/cm
1	9.45	5.17	0.673
2	9.55	5.11	0.667
3	9.56	5.11	0.674
4	9.56	5.09	0.675

Sampled by: Nauta

RJN Environmental Services, LLC

Well number:	CSD-7
	VY713

Groundwater Sample Collection Record

Client:	Central Sands Dairy	Date:	7/22
Project No.:	14-203	Time start:	1035
Site Location:	Juneau County, WI	Finish:	1050
Wether conditions:			

Water Level Data: Well: X Piez:

Total Depth: 23.5 Diameter: 2" Water column: 8.31

Depth to water: 15.19 Well volume: 1.3 gal.

Purging data:

Method: Low flow

Acceptance criteria:

Minimum purge volume (3 volumes): 3.9 gal.

Stabilization: pH: +/- 0.1

Temp: +/- 10%

Cond: +/- 5%

5.78

Removed	T	pH	mS/cm
1.5	8.99	~~5.88~~	0.846
3	9.11	5.82	0.864
4.5	9.11	5.81	0.856
6			

5.82

Sampled by: Nauta

RJN Environmental Services, LLC

Well number:	CSD-8
	VY744

Groundwater Sample Collection Record

Client:	Central Sands Dairy	Date:	3/22
Project No.:	14-203	Time start:	0925
Site Location:	Juneau County, WI	Finish:	0945
Wether conditions:			

Water Level Data: Well: X Piez: _____

Total Depth: 24.6 Diameter: 2" Water column: 8.55

Depth to water: 16.05 Well volume: 1.4 gal.

Purging data:

Method: Low flow

Acceptance criteria:

Minimum purge volume (3 volumes): 4.2 gal.

Stabilization: pH: +/- 0.1

Temp: +/- 10%

Cond: +/- 5%

4.94

Removed	T	pH	mS/cm
1.5	7.94	[illegible]	1.00
3	8.02	4.92	0.985
4.5	8.03	4.91	[illegible]
~~12~~			

0.985

Sampled by: Nauta

RJN Environmental Services, LLC

Well number:	CSD-9
	VY811

Groundwater Sample Collection Record

Client:	Central Sands Dairy	Date:	3/22
Project No.:	14-203	Time start:	1140
Site Location:	Juneau County, WI	Finish:	1155
Wether conditions:			

Water Level Data: Well: X Piez: _____

Total Depth: 20.1 Diameter: 2" Water column: 5.16

Depth to water: 14.94 Well volume: 0.82 gal.

Purging data:

Method: Low flow

Acceptance criteria:

Minimum purge volume (3 volumes): 3 gal.

Stabilization: pH: +/- 0.1

Temp: +/- 10%

Cond: +/- 5%

Removed	T	pH	mS/cm
1	8.53	5.99	0.226
2	8.56	6.03	~~0.222~~ 0.222
3	8.58	6.02	0.222
~~4~~			

Sampled by: Nauta

ATTACHMENT B

TEST AMERICA

LAB REPORTS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-125563-1
Client Project/Site: Central Sands Dairy - 14-203

For:
RJN Environmental Services LLC
4631 County Road A
Oregon, Wisconsin 53575

Attn: Robert J Nauta

Sandie Fredrick

Authorized for release by:
4/5/2017 12:47:22 PM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 500-125563-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-125563-1

Comments
No additional comments.

Receipt
The samples were received on 3/24/2017 8:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.1º C and 3.3º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method(s) 4500 NH3 H: Please note that the results between the TKN and Ammonia for sample CSD-1S (500-125563-1), CSD-1D (500-125563-2) and CSD-5 (500-125563-8) were less than 20% RPD value. It is possible that some of the nitrogen was volatilized in the TKN digestion process because the ammonia results were higher than the TKN . All of the QC was within acceptance criteria. CSD-1S (500-125563-1), CSD-1D (500-125563-2) and CSD-5 (500-125563-8)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: RJN Environmental Services LLC
Project/Site: Central Sands Dairy - 14-203

TestAmerica Job ID: 500-125563-1

Client Sample ID: CSD-1S — Lab Sample ID: 500-125563-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	18000		500	190	ug/L	1		6020	Total Recoverable
Chloride	16	B	1.0	0.38	mg/L	5		300.0	Total/NA
Nitrogen, Nitrate Nitrite	15		1.0	0.45	mg/L	10		353.2	Total/NA
Nitrogen, Kjeldahl	1.8		0.40	0.15	mg/L	1		4500 NH3 G	Total/NA
Total Organic Carbon - Duplicates	2.0		1.0	0.27	mg/L	1		9060A	Total/NA
Total Dissolved Solids	140		10	4.3	mg/L	1		SM 2540C	Total/NA
Ammonia	2.1	B	0.20	0.10	mg/L	1		SM 4500 NH3 G	Total/NA
Chemical Oxygen Demand	8.0	J	10	6.1	mg/L	1		SM 5220C	Total/NA

Client Sample ID: CSD-1D — Lab Sample ID: 500-125563-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	29000		500	190	ug/L	1		6020	Total Recoverable
Chloride	38	B	2.0	0.76	mg/L	10		300.0	Total/NA
Nitrogen, Nitrate Nitrite	24		2.5	1.1	mg/L	25		353.2	Total/NA
Nitrogen, Kjeldahl	4.6		0.80	0.29	mg/L	2		4500 NH3 G	Total/NA
Total Organic Carbon - Duplicates	2.7		1.0	0.27	mg/L	1		9060A	Total/NA
Total Dissolved Solids	330		10	4.3	mg/L	1		SM 2540C	Total/NA
Ammonia	5.7	B	0.40	0.20	mg/L	2		SM 4500 NH3 G	Total/NA

Client Sample ID: CSD-2 — Lab Sample ID: 500-125563-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	9500		500	190	ug/L	1		6020	Total Recoverable
Chloride	7.4	B	1.0	0.38	mg/L	5		300.0	Total/NA
Nitrogen, Nitrate Nitrite	7.5		0.50	0.23	mg/L	5		353.2	Total/NA
Nitrogen, Kjeldahl	0.36	J	0.40	0.15	mg/L	1		4500 NH3 G	Total/NA
Total Organic Carbon - Duplicates	1.7		1.0	0.27	mg/L	1		9060A	Total/NA
Total Dissolved Solids	56		10	4.3	mg/L	1		SM 2540C	Total/NA
Ammonia	0.18	J B	0.20	0.10	mg/L	1		SM 4500 NH3 G	Total/NA
Chemical Oxygen Demand	7.0	J	10	6.1	mg/L	1		SM 5220C	Total/NA

Client Sample ID: CSD-3S — Lab Sample ID: 500-125563-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	6500		500	190	ug/L	1		6020	Total Recoverable
Chloride	38	B	2.0	0.76	mg/L	10		300.0	Total/NA
Nitrogen, Nitrate Nitrite	24		2.5	1.1	mg/L	25		353.2	Total/NA
Nitrogen, Kjeldahl	0.58		0.40	0.15	mg/L	1		4500 NH3 G	Total/NA
Total Organic Carbon - Duplicates	1.6		1.0	0.27	mg/L	1		9060A	Total/NA
Total Dissolved Solids	230		10	4.3	mg/L	1		SM 2540C	Total/NA
Ammonia	0.19	J B	0.20	0.10	mg/L	1		SM 4500 NH3 G	Total/NA
Chemical Oxygen Demand	8.0	J	10	6.1	mg/L	1		SM 5220C	Total/NA

Client Sample ID: CSD-3D — Lab Sample ID: 500-125563-5

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: RJN Environmental Services LLC
Project/Site: Central Sands Dairy - 14-203

TestAmerica Job ID: 500-125563-1

Client Sample ID: CSD-3D (Continued) — Lab Sample ID: 500-125563-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	1600		500	190	ug/L	1		6020	Total Recoverable
Chloride	10	B	1.0	0.38	mg/L	5		300.0	Total/NA
Nitrogen, Nitrate Nitrite	18		1.0	0.45	mg/L	10		353.2	Total/NA
Nitrogen, Kjeldahl	0.36	J	0.40	0.15	mg/L	1		4500 NH3 G	Total/NA
Total Organic Carbon - Duplicates	0.53	J	1.0	0.27	mg/L	1		9060A	Total/NA
Total Dissolved Solids	120		10	4.3	mg/L	1		SM 2540C	Total/NA
Ammonia	0.19	J B	0.20	0.10	mg/L	1		SM 4500 NH3 G	Total/NA

Client Sample ID: CSD-4 — Lab Sample ID: 500-125563-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	38000		500	190	ug/L	1		6020	Total Recoverable
Chloride	40	B	2.0	0.76	mg/L	10		300.0	Total/NA
Nitrogen, Nitrate Nitrite	40		2.5	1.1	mg/L	25		353.2	Total/NA
Nitrogen, Kjeldahl	0.87		0.40	0.15	mg/L	1		4500 NH3 G	Total/NA
Total Organic Carbon - Duplicates	3.8		1.0	0.27	mg/L	1		9060A	Total/NA
Total Dissolved Solids	530		10	4.3	mg/L	1		SM 2540C	Total/NA
Ammonia	0.18	J B	0.20	0.10	mg/L	1		SM 4500 NH3 G	Total/NA
Chemical Oxygen Demand	13		10	6.1	mg/L	1		SM 5220C	Total/NA

Client Sample ID: CSD-4 DUP — Lab Sample ID: 500-125563-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	39000		500	190	ug/L	1		6020	Total Recoverable
Chloride	41	B	2.0	0.76	mg/L	10		300.0	Total/NA
Nitrogen, Nitrate Nitrite	42		2.5	1.1	mg/L	25		353.2	Total/NA
Nitrogen, Kjeldahl	1.0		0.40	0.15	mg/L	1		4500 NH3 G	Total/NA
Total Organic Carbon - Duplicates	3.8		1.0	0.27	mg/L	1		9060A	Total/NA
Total Dissolved Solids	530		10	4.3	mg/L	1		SM 2540C	Total/NA
Ammonia	0.19	J B	0.20	0.10	mg/L	1		SM 4500 NH3 G	Total/NA
Chemical Oxygen Demand	14		10	6.1	mg/L	1		SM 5220C	Total/NA

Client Sample ID: CSD-5 — Lab Sample ID: 500-125563-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	9200		500	190	ug/L	1		6020	Total Recoverable
Chloride	9.6	B	0.40	0.15	mg/L	2		300.0	Total/NA
Nitrogen, Nitrate Nitrite	0.86		0.10	0.045	mg/L	1		353.2	Total/NA
Nitrogen, Kjeldahl	0.30	J	0.40	0.15	mg/L	1		4500 NH3 G	Total/NA
Total Organic Carbon - Duplicates	1.3		1.0	0.27	mg/L	1		9060A	Total/NA
Total Dissolved Solids	8.0	J	10	4.3	mg/L	1		SM 2540C	Total/NA
Ammonia	0.31	B	0.20	0.10	mg/L	1		SM 4500 NH3 G	Total/NA
Chemical Oxygen Demand	12		10	6.1	mg/L	1		SM 5220C	Total/NA

Client Sample ID: CSD-6 — Lab Sample ID: 500-125563-9

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: RJN Environmental Services LLC
Project/Site: Central Sands Dairy - 14-203

TestAmerica Job ID: 500-125563-1

Client Sample ID: CSD-6 (Continued) — Lab Sample ID: 500-125563-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	73000		500	190	ug/L	1		6020	Total Recoverable
Chloride	33	B	1.0	0.38	mg/L	5		300.0	Total/NA
Nitrogen, Nitrate Nitrite	37		2.5	1.1	mg/L	25		353.2	Total/NA
Nitrogen, Kjeldahl	0.58		0.40	0.15	mg/L	1		4500 NH3 G	Total/NA
Total Organic Carbon - Duplicates	3.5		1.0	0.27	mg/L	1		9060A	Total/NA
Total Dissolved Solids	360		10	4.3	mg/L	1		SM 2540C	Total/NA
Ammonia	0.19	J B	0.20	0.10	mg/L	1		SM 4500 NH3 G	Total/NA
Chemical Oxygen Demand	15		10	6.1	mg/L	1		SM 5220C	Total/NA

Client Sample ID: CSD-7 — Lab Sample ID: 500-125563-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	72000		500	190	ug/L	1		6020	Total Recoverable
Chloride	50	B	2.0	0.76	mg/L	10		300.0	Total/NA
Nitrogen, Nitrate Nitrite	44		2.5	1.1	mg/L	25		353.2	Total/NA
Nitrogen, Kjeldahl	0.82		0.40	0.15	mg/L	1		4500 NH3 G	Total/NA
Total Organic Carbon - Duplicates	6.2		1.0	0.27	mg/L	1		9060A	Total/NA
Total Dissolved Solids	500		10	4.3	mg/L	1		SM 2540C	Total/NA
Ammonia	0.36	B	0.20	0.10	mg/L	1		SM 4500 NH3 G	Total/NA
Chemical Oxygen Demand	21		10	6.1	mg/L	1		SM 5220C	Total/NA

Client Sample ID: CSD-8 — Lab Sample ID: 500-125563-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	64000		500	190	ug/L	1		6020	Total Recoverable
Chloride	40	B	2.0	0.76	mg/L	10		300.0	Total/NA
Nitrogen, Nitrate Nitrite	53		5.0	2.3	mg/L	50		353.2	Total/NA
Nitrogen, Kjeldahl	0.72		0.40	0.15	mg/L	1		4500 NH3 G	Total/NA
Total Organic Carbon - Duplicates	5.5		1.0	0.27	mg/L	1		9060A	Total/NA
Total Dissolved Solids	590		10	4.3	mg/L	1		SM 2540C	Total/NA
Chemical Oxygen Demand	21		10	6.1	mg/L	1		SM 5220C	Total/NA

Client Sample ID: CSD-9 — Lab Sample ID: 500-125563-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	19000		500	190	ug/L	1		6020	Total Recoverable
Chloride	6.8	B	0.40	0.15	mg/L	2		300.0	Total/NA
Nitrogen, Nitrate Nitrite	9.1		0.50	0.23	mg/L	5		353.2	Total/NA
Nitrogen, Kjeldahl	0.48		0.40	0.15	mg/L	1		4500 NH3 G	Total/NA
Total Organic Carbon - Duplicates	2.4		1.0	0.27	mg/L	1		9060A	Total/NA
Total Dissolved Solids	78		10	4.3	mg/L	1		SM 2540C	Total/NA
Chemical Oxygen Demand	10		10	6.1	mg/L	1		SM 5220C	Total/NA

Client Sample ID: CSD-9 DUP — Lab Sample ID: 500-125563-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	18000		500	190	ug/L	1		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: RJN Environmental Services LLC
Project/Site: Central Sands Dairy - 14-203

TestAmerica Job ID: 500-125563-1

Client Sample ID: CSD-9 DUP (Continued) — Lab Sample ID: 500-125563-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.3	B	0.40	0.15	mg/L	2		300.0	Total/NA
Nitrogen, Nitrate Nitrite	8.8		0.50	0.23	mg/L	5		353.2	Total/NA
Nitrogen, Kjeldahl	0.50		0.40	0.15	mg/L	1		4500 NH3 G	Total/NA
Total Organic Carbon - Duplicates	2.4		1.0	0.27	mg/L	1		9060A	Total/NA
Total Dissolved Solids	70		10	4.3	mg/L	1		SM 2540C	Total/NA
Chemical Oxygen Demand	11		10	6.1	mg/L	1		SM 5220C	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: RJN Environmental Services LLC
Project/Site: Central Sands Dairy - 14-203

TestAmerica Job ID: 500-125563-1

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	TAL CHI
300.0	Anions, Ion Chromatography	MCAWW	TAL CHI
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	TAL CHI
4500 NH3 G	4500NH3 G - Nitrogen, Total Kjeldahl'	SM	TAL CHI
9060A	Organic Carbon, Total (TOC)	SW846	TAL CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL CHI
SM 4500 NH3 G	Ammonia	SM	TAL CHI
SM 5220C	COD	SM	TAL CHI

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SM = "Standard Methods For The Examination Of Water And Wastewater",
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: RJN Environmental Services LLC
Project/Site: Central Sands Dairy - 14-203

TestAmerica Job ID: 500-125563-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-125563-1	CSD-1S	Water	03/22/17 13:45	03/24/17 08:45
500-125563-2	CSD-1D	Water	03/22/17 13:20	03/24/17 08:45
500-125563-3	CSD-2	Water	03/22/17 14:25	03/24/17 08:45
500-125563-4	CSD-3S	Water	03/22/17 08:20	03/24/17 08:45
500-125563-5	CSD-3D	Water	03/22/17 07:50	03/24/17 08:45
500-125563-6	CSD-4	Water	03/22/17 08:50	03/24/17 08:45
500-125563-7	CSD-4 DUP	Water	03/22/17 08:50	03/24/17 08:45
500-125563-8	CSD-5	Water	03/22/17 15:00	03/24/17 08:45
500-125563-9	CSD-6	Water	03/22/17 11:20	03/24/17 08:45
500-125563-10	CSD-7	Water	03/22/17 10:50	03/24/17 08:45
500-125563-11	CSD-8	Water	03/22/17 09:45	03/24/17 08:45
500-125563-12	CSD-9	Water	03/22/17 11:55	03/24/17 08:45
500-125563-13	CSD-9 DUP	Water	03/22/17 11:55	03/24/17 08:45

Client Sample Results

Client: RJN Environmental Services LLC
Project/Site: Central Sands Dairy - 14-203

TestAmerica Job ID: 500-125563-1

Client Sample ID: CSD-1S

Lab Sample ID: 500-125563-1
Date Collected: 03/22/17 13:45
Matrix: Water
Date Received: 03/24/17 08:45

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	18000		500	190	ug/L		03/29/17 07:33	03/30/17 13:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16	B	1.0	0.38	mg/L			04/03/17 13:01	5
Nitrogen, Nitrate Nitrite	15		1.0	0.45	mg/L			03/30/17 19:40	10
Nitrogen, Kjeldahl	1.8		0.40	0.15	mg/L		04/03/17 10:50	04/03/17 13:12	1
Total Organic Carbon - Duplicates	2.0		1.0	0.27	mg/L			03/28/17 23:02	1
Total Dissolved Solids	140		10	4.3	mg/L			03/26/17 21:59	1
Ammonia	2.1	B	0.20	0.10	mg/L		03/24/17 17:07	03/24/17 19:43	1
Chemical Oxygen Demand	8.0	J	10	6.1	mg/L		03/27/17 10:23	03/28/17 12:24	1

Client Sample ID: CSD-1D

Lab Sample ID: 500-125563-2
Date Collected: 03/22/17 13:20
Matrix: Water
Date Received: 03/24/17 08:45

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	29000		500	190	ug/L		03/29/17 07:33	03/30/17 13:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	38	B	2.0	0.76	mg/L			04/03/17 13:14	10
Nitrogen, Nitrate Nitrite	24		2.5	1.1	mg/L			03/28/17 01:35	25
Nitrogen, Kjeldahl	4.6		0.80	0.29	mg/L		04/03/17 10:50	04/03/17 13:15	2
Total Organic Carbon - Duplicates	2.7		1.0	0.27	mg/L			03/28/17 23:18	1
Total Dissolved Solids	330		10	4.3	mg/L			03/26/17 22:04	1
Ammonia	5.7	B	0.40	0.20	mg/L		03/24/17 17:07	03/24/17 19:45	2
Chemical Oxygen Demand	<6.1		10	6.1	mg/L		03/27/17 10:23	03/28/17 12:25	1

Client Sample ID: CSD-2

Lab Sample ID: 500-125563-3
Date Collected: 03/22/17 14:25
Matrix: Water
Date Received: 03/24/17 08:45

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	9500		500	190	ug/L		03/29/17 07:33	03/30/17 13:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.4	B	1.0	0.38	mg/L			04/03/17 13:27	5
Nitrogen, Nitrate Nitrite	7.5		0.50	0.23	mg/L			03/28/17 00:36	5
Nitrogen, Kjeldahl	0.36	J	0.40	0.15	mg/L		04/03/17 10:50	04/03/17 13:17	1
Total Organic Carbon - Duplicates	1.7		1.0	0.27	mg/L			03/28/17 23:35	1
Total Dissolved Solids	56		10	4.3	mg/L			03/26/17 22:06	1
Ammonia	0.18	J B	0.20	0.10	mg/L		03/24/17 17:07	03/24/17 19:48	1
Chemical Oxygen Demand	7.0	J	10	6.1	mg/L		03/27/17 10:23	03/28/17 12:26	1

Client Sample Results

Client: RJN Environmental Services LLC
Project/Site: Central Sands Dairy - 14-203

TestAmerica Job ID: 500-125563-1

Client Sample ID: CSD-3S

Lab Sample ID: 500-125563-4
Matrix: Water

Date Collected: 03/22/17 08:20
Date Received: 03/24/17 08:45

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	6500		500	190	ug/L		03/29/17 07:33	03/30/17 14:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	38	B	2.0	0.76	mg/L			04/03/17 13:39	10
Nitrogen, Nitrate Nitrite	24		2.5	1.1	mg/L			03/28/17 01:38	25
Nitrogen, Kjeldahl	0.58		0.40	0.15	mg/L		04/03/17 10:50	04/03/17 13:20	1
Total Organic Carbon - Duplicates	1.6		1.0	0.27	mg/L			03/28/17 23:52	1
Total Dissolved Solids	230		10	4.3	mg/L			03/26/17 22:09	1
Ammonia	0.19	J B	0.20	0.10	mg/L		03/24/17 17:07	03/24/17 19:51	1
Chemical Oxygen Demand	8.0	J	10	6.1	mg/L		03/27/17 10:23	03/28/17 12:28	1

Client Sample ID: CSD-3D

Lab Sample ID: 500-125563-5
Matrix: Water

Date Collected: 03/22/17 07:50
Date Received: 03/24/17 08:45

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	1600		500	190	ug/L		03/29/17 07:33	03/30/17 14:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10	B	1.0	0.38	mg/L			04/03/17 14:17	5
Nitrogen, Nitrate Nitrite	18		1.0	0.45	mg/L			03/30/17 19:42	10
Nitrogen, Kjeldahl	0.36	J	0.40	0.15	mg/L		04/03/17 10:50	04/03/17 13:29	1
Total Organic Carbon - Duplicates	0.53	J	1.0	0.27	mg/L			03/29/17 00:08	1
Total Dissolved Solids	120		10	4.3	mg/L			03/26/17 22:12	1
Ammonia	0.19	J B	0.20	0.10	mg/L		03/24/17 17:07	03/24/17 19:54	1
Chemical Oxygen Demand	<6.1		10	6.1	mg/L		03/27/17 10:23	03/28/17 12:29	1

Client Sample ID: CSD-4

Lab Sample ID: 500-125563-6
Matrix: Water

Date Collected: 03/22/17 08:50
Date Received: 03/24/17 08:45

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	38000		500	190	ug/L		03/29/17 07:33	03/30/17 14:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40	B	2.0	0.76	mg/L			04/03/17 14:30	10
Nitrogen, Nitrate Nitrite	40		2.5	1.1	mg/L			03/28/17 01:42	25
Nitrogen, Kjeldahl	0.87		0.40	0.15	mg/L		04/03/17 10:50	04/03/17 13:32	1
Total Organic Carbon - Duplicates	3.8		1.0	0.27	mg/L			03/29/17 00:25	1
Total Dissolved Solids	530		10	4.3	mg/L			03/26/17 22:14	1
Ammonia	0.18	J B	0.20	0.10	mg/L		03/24/17 17:07	03/24/17 19:56	1
Chemical Oxygen Demand	13		10	6.1	mg/L		03/27/17 10:23	03/28/17 12:30	1

Client Sample ID: CSD-4 DUP

Lab Sample ID: 500-125563-7
Date Collected: 03/22/17 08:50
Matrix: Water
Date Received: 03/24/17 08:45

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	39000		500	190	ug/L		03/29/17 07:33	03/30/17 14:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41	B	2.0	0.76	mg/L			04/03/17 15:08	10
Nitrogen, Nitrate Nitrite	42		2.5	1.1	mg/L			03/28/17 01:44	25
Nitrogen, Kjeldahl	1.0		0.40	0.15	mg/L		04/03/17 10:50	04/03/17 13:34	1
Total Organic Carbon - Duplicates	3.8		1.0	0.27	mg/L			03/29/17 00:41	1
Total Dissolved Solids	530		10	4.3	mg/L			03/26/17 22:17	1
Ammonia	0.19	J B	0.20	0.10	mg/L		03/24/17 17:07	03/24/17 19:59	1
Chemical Oxygen Demand	14		10	6.1	mg/L		03/27/17 10:23	03/28/17 12:31	1

Client Sample ID: CSD-5

Lab Sample ID: 500-125563-8
Date Collected: 03/22/17 15:00
Matrix: Water
Date Received: 03/24/17 08:45

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	9200		500	190	ug/L		03/29/17 07:33	03/30/17 14:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.6	B	0.40	0.15	mg/L			04/03/17 15:21	2
Nitrogen, Nitrate Nitrite	0.86		0.10	0.045	mg/L			03/27/17 23:40	1
Nitrogen, Kjeldahl	0.30	J	0.40	0.15	mg/L		04/03/17 10:50	04/03/17 13:43	1
Total Organic Carbon - Duplicates	1.3		1.0	0.27	mg/L			03/29/17 00:57	1
Total Dissolved Solids	8.0	J	10	4.3	mg/L			03/26/17 22:19	1
Ammonia	0.31	B	0.20	0.10	mg/L		03/24/17 17:07	03/24/17 20:02	1
Chemical Oxygen Demand	12		10	6.1	mg/L		03/27/17 10:23	03/28/17 12:32	1

Client Sample ID: CSD-6

Lab Sample ID: 500-125563-9
Date Collected: 03/22/17 11:20
Matrix: Water
Date Received: 03/24/17 08:45

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	73000		500	190	ug/L		03/29/17 07:33	03/30/17 14:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33	B	1.0	0.38	mg/L			04/03/17 15:33	5
Nitrogen, Nitrate Nitrite	37		2.5	1.1	mg/L			03/28/17 01:46	25
Nitrogen, Kjeldahl	0.58		0.40	0.15	mg/L		04/03/17 10:50	04/03/17 13:46	1
Total Organic Carbon - Duplicates	3.5		1.0	0.27	mg/L			03/29/17 01:14	1
Total Dissolved Solids	360		10	4.3	mg/L			03/26/17 22:22	1
Ammonia	0.19	J B	0.20	0.10	mg/L		03/24/17 17:07	03/24/17 20:10	1
Chemical Oxygen Demand	15		10	6.1	mg/L		03/27/17 10:23	03/28/17 12:33	1

Client Sample Results

Client: RJN Environmental Services LLC
Project/Site: Central Sands Dairy - 14-203

TestAmerica Job ID: 500-125563-1

Client Sample ID: CSD-7

Lab Sample ID: 500-125563-10
Date Collected: 03/22/17 10:50
Matrix: Water
Date Received: 03/24/17 08:45

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	72000		500	190	ug/L		03/29/17 07:33	03/30/17 14:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50	B	2.0	0.76	mg/L			04/03/17 15:46	10
Nitrogen, Nitrate Nitrite	44		2.5	1.1	mg/L			03/28/17 01:51	25
Nitrogen, Kjeldahl	0.82		0.40	0.15	mg/L		04/03/17 10:50	04/03/17 13:49	1
Total Organic Carbon - Duplicates	6.2		1.0	0.27	mg/L			03/29/17 02:10	1
Total Dissolved Solids	500		10	4.3	mg/L			03/26/17 22:25	1
Ammonia	0.36	B	0.20	0.10	mg/L		03/24/17 17:07	03/24/17 20:13	1
Chemical Oxygen Demand	21		10	6.1	mg/L		03/29/17 10:24	03/29/17 13:54	1

Client Sample ID: CSD-8

Lab Sample ID: 500-125563-11
Date Collected: 03/22/17 09:45
Matrix: Water
Date Received: 03/24/17 08:45

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	64000		500	190	ug/L		03/29/17 07:33	03/30/17 14:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40	B	2.0	0.76	mg/L			04/03/17 15:58	10
Nitrogen, Nitrate Nitrite	53		5.0	2.3	mg/L			03/30/17 19:44	50
Nitrogen, Kjeldahl	0.72		0.40	0.15	mg/L		04/03/17 10:50	04/03/17 13:51	1
Total Organic Carbon - Duplicates	5.5		1.0	0.27	mg/L			03/29/17 02:26	1
Total Dissolved Solids	590		10	4.3	mg/L			03/26/17 22:27	1
Ammonia	<0.10		0.20	0.10	mg/L		03/28/17 20:10	03/28/17 23:05	1
Chemical Oxygen Demand	21		10	6.1	mg/L		03/29/17 10:24	03/29/17 13:55	1

Client Sample ID: CSD-9

Lab Sample ID: 500-125563-12
Date Collected: 03/22/17 11:55
Matrix: Water
Date Received: 03/24/17 08:45

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	19000		500	190	ug/L		03/29/17 07:33	03/30/17 14:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.8	B	0.40	0.15	mg/L			04/03/17 16:11	2
Nitrogen, Nitrate Nitrite	9.1		0.50	0.23	mg/L			03/28/17 00:59	5
Nitrogen, Kjeldahl	0.48		0.40	0.15	mg/L		04/03/17 10:50	04/03/17 13:54	1
Total Organic Carbon - Duplicates	2.4		1.0	0.27	mg/L			03/29/17 02:43	1
Total Dissolved Solids	78		10	4.3	mg/L			03/26/17 22:30	1
Ammonia	<0.10		0.20	0.10	mg/L		03/28/17 20:10	03/28/17 23:08	1
Chemical Oxygen Demand	10		10	6.1	mg/L		03/29/17 10:24	03/29/17 13:56	1

Client Sample Results

Client: RJN Environmental Services LLC
Project/Site: Central Sands Dairy - 14-203

TestAmerica Job ID: 500-125563-1

Client Sample ID: CSD-9 DUP

Lab Sample ID: 500-125563-13

Date Collected: 03/22/17 11:55
Date Received: 03/24/17 08:45

Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	**18000**		500	190	ug/L		03/29/17 07:33	03/30/17 14:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.3**	B	0.40	0.15	mg/L			04/03/17 16:49	2
Nitrogen, Nitrate Nitrite	**8.8**		0.50	0.23	mg/L			03/28/17 01:00	5
Nitrogen, Kjeldahl	**0.50**		0.40	0.15	mg/L		04/03/17 10:50	04/03/17 14:03	1
Total Organic Carbon - Duplicates	**2.4**		1.0	0.27	mg/L			03/29/17 02:59	1
Total Dissolved Solids	**70**		10	4.3	mg/L			03/26/17 22:32	1
Ammonia	<0.10		0.20	0.10	mg/L		03/28/17 20:10	03/28/17 23:11	1
Chemical Oxygen Demand	**11**		10	6.1	mg/L		03/29/17 10:24	03/29/17 13:57	1

Qualifiers

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: RJN Environmental Services LLC
Project/Site: Central Sands Dairy - 14-203

TestAmerica Job ID: 500-125563-1

Metals

Prep Batch: 377788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-125563-1	CSD-1S	Total Recoverable	Water	3005A	
500-125563-2	CSD-1D	Total Recoverable	Water	3005A	
500-125563-3	CSD-2	Total Recoverable	Water	3005A	
500-125563-4	CSD-3S	Total Recoverable	Water	3005A	
500-125563-5	CSD-3D	Total Recoverable	Water	3005A	
500-125563-6	CSD-4	Total Recoverable	Water	3005A	
500-125563-7	CSD-4 DUP	Total Recoverable	Water	3005A	
500-125563-8	CSD-5	Total Recoverable	Water	3005A	
500-125563-9	CSD-6	Total Recoverable	Water	3005A	
500-125563-10	CSD-7	Total Recoverable	Water	3005A	
500-125563-11	CSD-8	Total Recoverable	Water	3005A	
500-125563-12	CSD-9	Total Recoverable	Water	3005A	
500-125563-13	CSD-9 DUP	Total Recoverable	Water	3005A	
MB 500-377788/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-377788/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-125563-1 MS	CSD-1S	Total Recoverable	Water	3005A	
500-125563-1 MSD	CSD-1S	Total Recoverable	Water	3005A	
500-125563-1 DU	CSD-1S	Total Recoverable	Water	3005A	

Analysis Batch: 378100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-125563-1	CSD-1S	Total Recoverable	Water	6020	377788
500-125563-2	CSD-1D	Total Recoverable	Water	6020	377788
500-125563-3	CSD-2	Total Recoverable	Water	6020	377788
500-125563-4	CSD-3S	Total Recoverable	Water	6020	377788
500-125563-5	CSD-3D	Total Recoverable	Water	6020	377788
500-125563-6	CSD-4	Total Recoverable	Water	6020	377788
500-125563-7	CSD-4 DUP	Total Recoverable	Water	6020	377788
500-125563-8	CSD-5	Total Recoverable	Water	6020	377788
500-125563-9	CSD-6	Total Recoverable	Water	6020	377788
500-125563-10	CSD-7	Total Recoverable	Water	6020	377788
500-125563-11	CSD-8	Total Recoverable	Water	6020	377788
500-125563-12	CSD-9	Total Recoverable	Water	6020	377788
500-125563-13	CSD-9 DUP	Total Recoverable	Water	6020	377788
MB 500-377788/1-A	Method Blank	Total Recoverable	Water	6020	377788
LCS 500-377788/2-A	Lab Control Sample	Total Recoverable	Water	6020	377788
500-125563-1 MS	CSD-1S	Total Recoverable	Water	6020	377788
500-125563-1 MSD	CSD-1S	Total Recoverable	Water	6020	377788
500-125563-1 DU	CSD-1S	Total Recoverable	Water	6020	377788

General Chemistry

Prep Batch: 377281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-125563-1	CSD-1S	Total/NA	Water	SM 4500 NH3 B	
500-125563-2	CSD-1D	Total/NA	Water	SM 4500 NH3 B	
500-125563-3	CSD-2	Total/NA	Water	SM 4500 NH3 B	
500-125563-4	CSD-3S	Total/NA	Water	SM 4500 NH3 B	
500-125563-5	CSD-3D	Total/NA	Water	SM 4500 NH3 B	
500-125563-6	CSD-4	Total/NA	Water	SM 4500 NH3 B	

General Chemistry (Continued)

Prep Batch: 377281 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-125563-7	CSD-4 DUP	Total/NA	Water	SM 4500 NH3 B	
500-125563-8	CSD-5	Total/NA	Water	SM 4500 NH3 B	
500-125563-9	CSD-6	Total/NA	Water	SM 4500 NH3 B	
500-125563-10	CSD-7	Total/NA	Water	SM 4500 NH3 B	
MB 500-377281/1-A	Method Blank	Total/NA	Water	SM 4500 NH3 B	
LCS 500-377281/2-A	Lab Control Sample	Total/NA	Water	SM 4500 NH3 B	
500-125563-10 MS	CSD-7	Total/NA	Water	SM 4500 NH3 B	
500-125563-10 MSD	CSD-7	Total/NA	Water	SM 4500 NH3 B	

Analysis Batch: 377306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-125563-1	CSD-1S	Total/NA	Water	SM 4500 NH3 G	377281
500-125563-2	CSD-1D	Total/NA	Water	SM 4500 NH3 G	377281
500-125563-3	CSD-2	Total/NA	Water	SM 4500 NH3 G	377281
500-125563-4	CSD-3S	Total/NA	Water	SM 4500 NH3 G	377281
500-125563-5	CSD-3D	Total/NA	Water	SM 4500 NH3 G	377281
500-125563-6	CSD-4	Total/NA	Water	SM 4500 NH3 G	377281
500-125563-7	CSD-4 DUP	Total/NA	Water	SM 4500 NH3 G	377281
500-125563-8	CSD-5	Total/NA	Water	SM 4500 NH3 G	377281
500-125563-9	CSD-6	Total/NA	Water	SM 4500 NH3 G	377281
500-125563-10	CSD-7	Total/NA	Water	SM 4500 NH3 G	377281
MB 500-377281/1-A	Method Blank	Total/NA	Water	SM 4500 NH3 G	377281
LCS 500-377281/2-A	Lab Control Sample	Total/NA	Water	SM 4500 NH3 G	377281
500-125563-10 MS	CSD-7	Total/NA	Water	SM 4500 NH3 G	377281
500-125563-10 MSD	CSD-7	Total/NA	Water	SM 4500 NH3 G	377281

Analysis Batch: 377382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-125563-1	CSD-1S	Total/NA	Water	SM 2540C	
500-125563-2	CSD-1D	Total/NA	Water	SM 2540C	
500-125563-3	CSD-2	Total/NA	Water	SM 2540C	
500-125563-4	CSD-3S	Total/NA	Water	SM 2540C	
500-125563-5	CSD-3D	Total/NA	Water	SM 2540C	
500-125563-6	CSD-4	Total/NA	Water	SM 2540C	
500-125563-7	CSD-4 DUP	Total/NA	Water	SM 2540C	
500-125563-8	CSD-5	Total/NA	Water	SM 2540C	
500-125563-9	CSD-6	Total/NA	Water	SM 2540C	
500-125563-10	CSD-7	Total/NA	Water	SM 2540C	
500-125563-11	CSD-8	Total/NA	Water	SM 2540C	
500-125563-12	CSD-9	Total/NA	Water	SM 2540C	
500-125563-13	CSD-9 DUP	Total/NA	Water	SM 2540C	
MB 500-377382/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-377382/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-125563-1 DU	CSD-1S	Total/NA	Water	SM 2540C	

Prep Batch: 377444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-125563-1	CSD-1S	Total/NA	Water	SM 5220	
500-125563-2	CSD-1D	Total/NA	Water	SM 5220	
500-125563-3	CSD-2	Total/NA	Water	SM 5220	
500-125563-4	CSD-3S	Total/NA	Water	SM 5220	

General Chemistry (Continued)

Prep Batch: 377444 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-125563-5	CSD-3D	Total/NA	Water	SM 5220	
500-125563-6	CSD-4	Total/NA	Water	SM 5220	
500-125563-7	CSD-4 DUP	Total/NA	Water	SM 5220	
500-125563-8	CSD-5	Total/NA	Water	SM 5220	
500-125563-9	CSD-6	Total/NA	Water	SM 5220	
MB 500-377444/1-A	Method Blank	Total/NA	Water	SM 5220	
LCS 500-377444/2-A	Lab Control Sample	Total/NA	Water	SM 5220	

Analysis Batch: 377671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-125563-1	CSD-1S	Total/NA	Water	SM 5220C	377444
500-125563-2	CSD-1D	Total/NA	Water	SM 5220C	377444
500-125563-3	CSD-2	Total/NA	Water	SM 5220C	377444
500-125563-4	CSD-3S	Total/NA	Water	SM 5220C	377444
500-125563-5	CSD-3D	Total/NA	Water	SM 5220C	377444
500-125563-6	CSD-4	Total/NA	Water	SM 5220C	377444
500-125563-7	CSD-4 DUP	Total/NA	Water	SM 5220C	377444
500-125563-8	CSD-5	Total/NA	Water	SM 5220C	377444
500-125563-9	CSD-6	Total/NA	Water	SM 5220C	377444
MB 500-377444/1-A	Method Blank	Total/NA	Water	SM 5220C	377444
LCS 500-377444/2-A	Lab Control Sample	Total/NA	Water	SM 5220C	377444

Analysis Batch: 377728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-125563-2	CSD-1D	Total/NA	Water	353.2	
500-125563-3	CSD-2	Total/NA	Water	353.2	
500-125563-4	CSD-3S	Total/NA	Water	353.2	
500-125563-6	CSD-4	Total/NA	Water	353.2	
500-125563-7	CSD-4 DUP	Total/NA	Water	353.2	
500-125563-8	CSD-5	Total/NA	Water	353.2	
500-125563-9	CSD-6	Total/NA	Water	353.2	
500-125563-10	CSD-7	Total/NA	Water	353.2	
500-125563-12	CSD-9	Total/NA	Water	353.2	
500-125563-13	CSD-9 DUP	Total/NA	Water	353.2	
MB 500-377728/4	Method Blank	Total/NA	Water	353.2	
LCS 500-377728/5	Lab Control Sample	Total/NA	Water	353.2	
500-125563-9 MS	CSD-6	Total/NA	Water	353.2	
500-125563-9 MS	CSD-6	Total/NA	Water	353.2	
500-125563-9 MSD	CSD-6	Total/NA	Water	353.2	
500-125563-9 MSD	CSD-6	Total/NA	Water	353.2	

Prep Batch: 377742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-125563-11	CSD-8	Total/NA	Water	SM 4500 NH3 B	
500-125563-12	CSD-9	Total/NA	Water	SM 4500 NH3 B	
500-125563-13	CSD-9 DUP	Total/NA	Water	SM 4500 NH3 B	
MB 500-377742/1-A	Method Blank	Total/NA	Water	SM 4500 NH3 B	
LCS 500-377742/2-A	Lab Control Sample	Total/NA	Water	SM 4500 NH3 B	

General Chemistry (Continued)

Analysis Batch: 377776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-125563-11	CSD-8	Total/NA	Water	SM 4500 NH3 G	377742
500-125563-12	CSD-9	Total/NA	Water	SM 4500 NH3 G	377742
500-125563-13	CSD-9 DUP	Total/NA	Water	SM 4500 NH3 G	377742
MB 500-377742/1-A	Method Blank	Total/NA	Water	SM 4500 NH3 G	377742
LCS 500-377742/2-A	Lab Control Sample	Total/NA	Water	SM 4500 NH3 G	377742

Prep Batch: 377832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-125563-10	CSD-7	Total/NA	Water	SM 5220	
500-125563-11	CSD-8	Total/NA	Water	SM 5220	
500-125563-12	CSD-9	Total/NA	Water	SM 5220	
500-125563-13	CSD-9 DUP	Total/NA	Water	SM 5220	
MB 500-377832/1-A	Method Blank	Total/NA	Water	SM 5220	
LCS 500-377832/2-A	Lab Control Sample	Total/NA	Water	SM 5220	

Analysis Batch: 377882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-125563-10	CSD-7	Total/NA	Water	SM 5220C	377832
500-125563-11	CSD-8	Total/NA	Water	SM 5220C	377832
500-125563-12	CSD-9	Total/NA	Water	SM 5220C	377832
500-125563-13	CSD-9 DUP	Total/NA	Water	SM 5220C	377832
MB 500-377832/1-A	Method Blank	Total/NA	Water	SM 5220C	377832
LCS 500-377832/2-A	Lab Control Sample	Total/NA	Water	SM 5220C	377832

Analysis Batch: 378114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-125563-1	CSD-1S	Total/NA	Water	9060A	
500-125563-2	CSD-1D	Total/NA	Water	9060A	
500-125563-3	CSD-2	Total/NA	Water	9060A	
500-125563-4	CSD-3S	Total/NA	Water	9060A	
500-125563-5	CSD-3D	Total/NA	Water	9060A	
500-125563-6	CSD-4	Total/NA	Water	9060A	
500-125563-7	CSD-4 DUP	Total/NA	Water	9060A	
500-125563-8	CSD-5	Total/NA	Water	9060A	
500-125563-9	CSD-6	Total/NA	Water	9060A	
500-125563-10	CSD-7	Total/NA	Water	9060A	
500-125563-11	CSD-8	Total/NA	Water	9060A	
500-125563-12	CSD-9	Total/NA	Water	9060A	
500-125563-13	CSD-9 DUP	Total/NA	Water	9060A	
MB 500-378114/4	Method Blank	Total/NA	Water	9060A	
LCS 500-378114/5	Lab Control Sample	Total/NA	Water	9060A	
500-125563-9 MS	CSD-6	Total/NA	Water	9060A	
500-125563-9 MSD	CSD-6	Total/NA	Water	9060A	

Analysis Batch: 378157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-125563-1	CSD-1S	Total/NA	Water	353.2	
500-125563-5	CSD-3D	Total/NA	Water	353.2	
500-125563-11	CSD-8	Total/NA	Water	353.2	
MB 500-378157/12	Method Blank	Total/NA	Water	353.2	
LCS 500-378157/13	Lab Control Sample	Total/NA	Water	353.2	

QC Association Summary

Client: RJN Environmental Services LLC
Project/Site: Central Sands Dairy - 14-203

TestAmerica Job ID: 500-125563-1

Prep Batch: 378378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-125563-1	CSD-1S	Total/NA	Water	SM4500Norg_C	
500-125563-2	CSD-1D	Total/NA	Water	SM4500Norg_C	
500-125563-3	CSD-2	Total/NA	Water	SM4500Norg_C	
500-125563-4	CSD-3S	Total/NA	Water	SM4500Norg_C	
500-125563-5	CSD-3D	Total/NA	Water	SM4500Norg_C	
500-125563-6	CSD-4	Total/NA	Water	SM4500Norg_C	
500-125563-7	CSD-4 DUP	Total/NA	Water	SM4500Norg_C	
500-125563-8	CSD-5	Total/NA	Water	SM4500Norg_C	
500-125563-9	CSD-6	Total/NA	Water	SM4500Norg_C	
500-125563-10	CSD-7	Total/NA	Water	SM4500Norg_C	
500-125563-11	CSD-8	Total/NA	Water	SM4500Norg_C	
500-125563-12	CSD-9	Total/NA	Water	SM4500Norg_C	
500-125563-13	CSD-9 DUP	Total/NA	Water	SM4500Norg_C	
MB 500-378378/1-A	Method Blank	Total/NA	Water	SM4500Norg_C	
LCS 500-378378/2-A	Lab Control Sample	Total/NA	Water	SM4500Norg_C	
500-125563-7 MS	CSD-4 DUP	Total/NA	Water	SM4500Norg_C	
500-125563-7 MSD	CSD-4 DUP	Total/NA	Water	SM4500Norg_C	

Analysis Batch: 378522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-125563-1	CSD-1S	Total/NA	Water	4500 NH3 G	378378
500-125563-2	CSD-1D	Total/NA	Water	4500 NH3 G	378378
500-125563-3	CSD-2	Total/NA	Water	4500 NH3 G	378378
500-125563-4	CSD-3S	Total/NA	Water	4500 NH3 G	378378
500-125563-5	CSD-3D	Total/NA	Water	4500 NH3 G	378378
500-125563-6	CSD-4	Total/NA	Water	4500 NH3 G	378378
500-125563-7	CSD-4 DUP	Total/NA	Water	4500 NH3 G	378378
500-125563-8	CSD-5	Total/NA	Water	4500 NH3 G	378378
500-125563-9	CSD-6	Total/NA	Water	4500 NH3 G	378378
500-125563-10	CSD-7	Total/NA	Water	4500 NH3 G	378378
500-125563-11	CSD-8	Total/NA	Water	4500 NH3 G	378378
500-125563-12	CSD-9	Total/NA	Water	4500 NH3 G	378378
500-125563-13	CSD-9 DUP	Total/NA	Water	4500 NH3 G	378378
MB 500-378378/1-A	Method Blank	Total/NA	Water	4500 NH3 G	378378
LCS 500-378378/2-A	Lab Control Sample	Total/NA	Water	4500 NH3 G	378378
500-125563-7 MS	CSD-4 DUP	Total/NA	Water	4500 NH3 G	378378
500-125563-7 MSD	CSD-4 DUP	Total/NA	Water	4500 NH3 G	378378

Analysis Batch: 378645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-125563-1	CSD-1S	Total/NA	Water	300.0	
500-125563-2	CSD-1D	Total/NA	Water	300.0	
500-125563-3	CSD-2	Total/NA	Water	300.0	
500-125563-4	CSD-3S	Total/NA	Water	300.0	
500-125563-5	CSD-3D	Total/NA	Water	300.0	
500-125563-6	CSD-4	Total/NA	Water	300.0	
500-125563-7	CSD-4 DUP	Total/NA	Water	300.0	
500-125563-8	CSD-5	Total/NA	Water	300.0	
500-125563-9	CSD-6	Total/NA	Water	300.0	
500-125563-10	CSD-7	Total/NA	Water	300.0	
500-125563-11	CSD-8	Total/NA	Water	300.0	
500-125563-12	CSD-9	Total/NA	Water	300.0	
500-125563-13	CSD-9 DUP	Total/NA	Water	300.0	

General Chemistry (Continued)

Analysis Batch: 378645 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-378645/23	Method Blank	Total/NA	Water	300.0	
LCS 500-378645/29	Lab Control Sample	Total/NA	Water	300.0	
500-125563-6 MS	CSD-4	Total/NA	Water	300.0	
500-125563-6 MSD	CSD-4	Total/NA	Water	300.0	

QC Sample Results

Client: RJN Environmental Services LLC
Project/Site: Central Sands Dairy - 14-203

TestAmerica Job ID: 500-125563-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 500-377788/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 378100 — **Prep Batch: 377788**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	<190		500	190	ug/L		03/29/17 07:33	03/30/17 12:34	1

Lab Sample ID: LCS 500-377788/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 378100 — **Prep Batch: 377788**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Potassium	10000	10900		ug/L		109	80 - 120

Lab Sample ID: 500-125563-1 MS — **Client Sample ID: CSD-1S**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 378100 — **Prep Batch: 377788**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Potassium	18000		10000	26200		ug/L		85	75 - 125

Lab Sample ID: 500-125563-1 MSD — **Client Sample ID: CSD-1S**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 378100 — **Prep Batch: 377788**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Potassium	18000		10000	27600		ug/L		99	75 - 125	5	20

Lab Sample ID: 500-125563-1 DU — **Client Sample ID: CSD-1S**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 378100 — **Prep Batch: 377788**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Potassium	18000		18400		ug/L		4	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-378645/23 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 378645

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.101	J	0.20	0.076	mg/L			04/03/17 11:45	1

Lab Sample ID: LCS 500-378645/29 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 378645

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	3.00	2.94		mg/L		98	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 500-125563-6 MS — **Client Sample ID: CSD-4**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 378645

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	40	B	10.0	46.3	4	mg/L		60	80 - 120

Lab Sample ID: 500-125563-6 MSD — **Client Sample ID: CSD-4**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 378645

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	40	B	10.0	48.0	4	mg/L		76	80 - 120	4	20

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 500-377728/4 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 377728

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrate Nitrite	<0.045		0.10	0.045	mg/L			03/27/17 23:20	1

Lab Sample ID: LCS 500-377728/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 377728

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Nitrate Nitrite	1.00	0.952		mg/L		95	90 - 110

Lab Sample ID: 500-125563-9 MS — **Client Sample ID: CSD-6**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 377728

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Nitrate Nitrite	36		1.00	35.8	4	mg/L		7	90 - 110

Lab Sample ID: 500-125563-9 MS — **Client Sample ID: CSD-6**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 377728

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Nitrate Nitrite	37		1.00	36.9	4	mg/L		-19	90 - 110

Lab Sample ID: 500-125563-9 MSD — **Client Sample ID: CSD-6**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 377728

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrogen, Nitrate Nitrite	36		1.00	36.6	4	mg/L		91	90 - 110	2	20

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: 500-125563-9 MSD — **Client Sample ID: CSD-6**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 377728

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrogen, Nitrate Nitrite	37		1.00	36.3	4	mg/L		-85	90 - 110	2	20

Lab Sample ID: MB 500-378157/12 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 378157

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrate Nitrite	<0.045		0.10	0.045	mg/L			03/30/17 19:10	1

Lab Sample ID: LCS 500-378157/13 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 378157

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Nitrate Nitrite	1.00	0.991		mg/L		99	90 - 110

Method: 4500 NH3 G - 4500NH3 G - Nitrogen, Total Kjeldahl'

Lab Sample ID: MB 500-378378/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 378522 — **Prep Batch: 378378**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	<0.15		0.40	0.15	mg/L		04/03/17 10:50	04/03/17 12:55	1

Lab Sample ID: LCS 500-378378/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 378522 — **Prep Batch: 378378**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Kjeldahl	2.50	2.40		mg/L		96	80 - 120

Lab Sample ID: 500-125563-7 MS — **Client Sample ID: CSD-4 DUP**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 378522 — **Prep Batch: 378378**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Kjeldahl	1.0		2.50	3.20		mg/L		88	75 - 125

Lab Sample ID: 500-125563-7 MSD — **Client Sample ID: CSD-4 DUP**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 378522 — **Prep Batch: 378378**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrogen, Kjeldahl	1.0		2.50	3.32		mg/L		93	75 - 125	4	20

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 500-378114/4 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 378114

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	<0.27		1.0	0.27	mg/L			03/28/17 19:47	1

Lab Sample ID: LCS 500-378114/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 378114

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon - Duplicates	10.0	10.8		mg/L		108	80 - 120
TOC Result 1	10.0	10.7		mg/L		107	80 - 120
TOC Result 2	10.0	10.9		mg/L		109	80 - 120

Lab Sample ID: 500-125563-9 MS — **Client Sample ID: CSD-6**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 378114

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon - Duplicates	3.5		10.0	13.4		mg/L		100	75 - 125
TOC Result 1	3.6		10.0	13.4		mg/L		98	75 - 125
TOC Result 2	3.3		10.0	13.4		mg/L		101	75 - 125

Lab Sample ID: 500-125563-9 MSD — **Client Sample ID: CSD-6**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 378114

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon - Duplicates	3.5		10.0	13.6		mg/L		102	75 - 125	1	20
TOC Result 1	3.6		10.0	13.6		mg/L		100	75 - 125	1	20
TOC Result 2	3.3		10.0	13.6		mg/L		103	75 - 125	1	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 500-377382/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 377382

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<4.3		10	4.3	mg/L			03/26/17 21:54	1

Lab Sample ID: LCS 500-377382/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 377382

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	250	284		mg/L		114	80 - 120

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: 500-125563-1 DU — **Client Sample ID: CSD-1S**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 377382

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	140		134		mg/L		3	5

Method: SM 4500 NH3 G - Ammonia

Lab Sample ID: MB 500-377281/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 377306 — **Prep Batch: 377281**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.171	J	0.20	0.10	mg/L		03/24/17 17:07	03/24/17 19:04	1

Lab Sample ID: LCS 500-377281/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 377306 — **Prep Batch: 377281**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	2.50	2.65		mg/L		106	80 - 120

Lab Sample ID: 500-125563-10 MS — **Client Sample ID: CSD-7**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 377306 — **Prep Batch: 377281**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	0.36	B	2.50	2.90		mg/L		101	75 - 125

Lab Sample ID: 500-125563-10 MSD — **Client Sample ID: CSD-7**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 377306 — **Prep Batch: 377281**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia	0.36	B	2.50	2.97		mg/L		104	75 - 125	2	20

Lab Sample ID: MB 500-377742/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 377776 — **Prep Batch: 377742**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	<0.10		0.20	0.10	mg/L		03/28/17 20:10	03/28/17 23:00	1

Lab Sample ID: LCS 500-377742/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 377776 — **Prep Batch: 377742**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	2.50	2.44		mg/L		97	80 - 120

QC Sample Results

Client: RJN Environmental Services LLC
Project/Site: Central Sands Dairy - 14-203

TestAmerica Job ID: 500-125563-1

Method: SM 5220C - COD

Lab Sample ID: MB 500-377444/1-A
Matrix: Water
Analysis Batch: 377671

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 377444

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	<6.1		10	6.1	mg/L		03/27/17 10:23	03/28/17 12:07	1

Lab Sample ID: LCS 500-377444/2-A
Matrix: Water
Analysis Batch: 377671

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 377444

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	50.0	56.3		mg/L		113	80 - 120

Lab Sample ID: MB 500-377832/1-A
Matrix: Water
Analysis Batch: 377882

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 377832

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	<6.1		10	6.1	mg/L		03/29/17 10:24	03/29/17 13:40	1

Lab Sample ID: LCS 500-377832/2-A
Matrix: Water
Analysis Batch: 377882

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 377832

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	50.0	56.2		mg/L		112	80 - 120

Lab Chronicle

Client: RJN Environmental Services LLC
Project/Site: Central Sands Dairy - 14-203

TestAmerica Job ID: 500-125563-1

Client Sample ID: CSD-1S
Date Collected: 03/22/17 13:45
Date Received: 03/24/17 08:45

Lab Sample ID: 500-125563-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			377788	03/29/17 07:33	JEF	TAL CHI
Total Recoverable	Analysis	6020		1	378100	03/30/17 13:29	FXG	TAL CHI
Total/NA	Analysis	300.0		5	378645	04/03/17 13:01	PMF	TAL CHI
Total/NA	Analysis	353.2		10	378157	03/30/17 19:40	HMW	TAL CHI
Total/NA	Prep	SM4500Norg_C			378378	04/03/17 10:50	HMW	TAL CHI
Total/NA	Analysis	4500 NH3 G		1	378522	04/03/17 13:12	MTB	TAL CHI
Total/NA	Analysis	9060A		1	378114	03/28/17 23:02	HMW	TAL CHI
Total/NA	Analysis	SM 2540C		1	377382	03/26/17 21:59	CLB	TAL CHI
Total/NA	Prep	SM 4500 NH3 B			377281	03/24/17 17:07	JBJ	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	377306		JBJ	TAL CHI
					(Start)	03/24/17 19:43		
					(End)	03/24/17 19:45		
Total/NA	Prep	SM 5220			377444	03/27/17 10:23	MAN	TAL CHI
Total/NA	Analysis	SM 5220C		1	377671	03/28/17 12:24	MAN	TAL CHI

Client Sample ID: CSD-1D
Date Collected: 03/22/17 13:20
Date Received: 03/24/17 08:45

Lab Sample ID: 500-125563-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			377788	03/29/17 07:33	JEF	TAL CHI
Total Recoverable	Analysis	6020		1	378100	03/30/17 13:48	FXG	TAL CHI
Total/NA	Analysis	300.0		10	378645	04/03/17 13:14	PMF	TAL CHI
Total/NA	Analysis	353.2		25	377728	03/28/17 01:35	HMW	TAL CHI
Total/NA	Prep	SM4500Norg_C			378378	04/03/17 10:50	HMW	TAL CHI
Total/NA	Analysis	4500 NH3 G		2	378522	04/03/17 13:15	MTB	TAL CHI
Total/NA	Analysis	9060A		1	378114	03/28/17 23:18	HMW	TAL CHI
Total/NA	Analysis	SM 2540C		1	377382	03/26/17 22:04	CLB	TAL CHI
Total/NA	Prep	SM 4500 NH3 B			377281	03/24/17 17:07	JBJ	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		2	377306		JBJ	TAL CHI
					(Start)	03/24/17 19:45		
					(End)	03/24/17 19:48		
Total/NA	Prep	SM 5220			377444	03/27/17 10:23	MAN	TAL CHI
Total/NA	Analysis	SM 5220C		1	377671	03/28/17 12:25	MAN	TAL CHI

Client Sample ID: CSD-2
Date Collected: 03/22/17 14:25
Date Received: 03/24/17 08:45

Lab Sample ID: 500-125563-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			377788	03/29/17 07:33	JEF	TAL CHI
Total Recoverable	Analysis	6020		1	378100	03/30/17 13:59	FXG	TAL CHI
Total/NA	Analysis	300.0		5	378645	04/03/17 13:27	PMF	TAL CHI

Lab Chronicle

Client: RJN Environmental Services LLC
Project/Site: Central Sands Dairy - 14-203

TestAmerica Job ID: 500-125563-1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		5	377728	03/28/17 00:36	HMW	TAL CHI
Total/NA	Prep	SM4500Norg_C			378378	04/03/17 10:50	HMW	TAL CHI
Total/NA	Analysis	4500 NH3 G		1	378522	04/03/17 13:17	MTB	TAL CHI
Total/NA	Analysis	9060A		1	378114	03/28/17 23:35	HMW	TAL CHI
Total/NA	Analysis	SM 2540C		1	377382	03/26/17 22:06	CLB	TAL CHI
Total/NA	Prep	SM 4500 NH3 B			377281	03/24/17 17:07	JBJ	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	377306		JBJ	TAL CHI
					(Start)	03/24/17 19:48		
					(End)	03/24/17 19:51		
Total/NA	Prep	SM 5220			377444	03/27/17 10:23	MAN	TAL CHI
Total/NA	Analysis	SM 5220C		1	377671	03/28/17 12:26	MAN	TAL CHI

Client Sample ID: CSD-3S

Lab Sample ID: 500-125563-4

Date Collected: 03/22/17 08:20
Date Received: 03/24/17 08:45

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			377788	03/29/17 07:33	JEF	TAL CHI
Total Recoverable	Analysis	6020		1	378100	03/30/17 14:03	FXG	TAL CHI
Total/NA	Analysis	300.0		10	378645	04/03/17 13:39	PMF	TAL CHI
Total/NA	Analysis	353.2		25	377728	03/28/17 01:38	HMW	TAL CHI
Total/NA	Prep	SM4500Norg_C			378378	04/03/17 10:50	HMW	TAL CHI
Total/NA	Analysis	4500 NH3 G		1	378522	04/03/17 13:20	MTB	TAL CHI
Total/NA	Analysis	9060A		1	378114	03/28/17 23:52	HMW	TAL CHI
Total/NA	Analysis	SM 2540C		1	377382	03/26/17 22:09	CLB	TAL CHI
Total/NA	Prep	SM 4500 NH3 B			377281	03/24/17 17:07	JBJ	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	377306		JBJ	TAL CHI
					(Start)	03/24/17 19:51		
					(End)	03/24/17 19:54		
Total/NA	Prep	SM 5220			377444	03/27/17 10:23	MAN	TAL CHI
Total/NA	Analysis	SM 5220C		1	377671	03/28/17 12:28	MAN	TAL CHI

Client Sample ID: CSD-3D

Lab Sample ID: 500-125563-5

Date Collected: 03/22/17 07:50
Date Received: 03/24/17 08:45

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			377788	03/29/17 07:33	JEF	TAL CHI
Total Recoverable	Analysis	6020		1	378100	03/30/17 14:07	FXG	TAL CHI
Total/NA	Analysis	300.0		5	378645	04/03/17 14:17	PMF	TAL CHI
Total/NA	Analysis	353.2		10	378157	03/30/17 19:42	HMW	TAL CHI
Total/NA	Prep	SM4500Norg_C			378378	04/03/17 10:50	HMW	TAL CHI
Total/NA	Analysis	4500 NH3 G		1	378522	04/03/17 13:29	MTB	TAL CHI
Total/NA	Analysis	9060A		1	378114	03/29/17 00:08	HMW	TAL CHI
Total/NA	Analysis	SM 2540C		1	377382	03/26/17 22:12	CLB	TAL CHI
Total/NA	Prep	SM 4500 NH3 B			377281	03/24/17 17:07	JBJ	TAL CHI

Lab Chronicle

Client: RJN Environmental Services LLC
Project/Site: Central Sands Dairy - 14-203

TestAmerica Job ID: 500-125563-1

Client Sample ID: CSD-3D

Lab Sample ID: 500-125563-5
Matrix: Water
Date Collected: 03/22/17 07:50
Date Received: 03/24/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 NH3 G		1	377306		JBJ	TAL CHI
					(Start)	03/24/17 19:54		
					(End)	03/24/17 19:56		
Total/NA	Prep	SM 5220			377444	03/27/17 10:23	MAN	TAL CHI
Total/NA	Analysis	SM 5220C		1	377671	03/28/17 12:29	MAN	TAL CHI

Client Sample ID: CSD-4

Lab Sample ID: 500-125563-6
Matrix: Water
Date Collected: 03/22/17 08:50
Date Received: 03/24/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			377788	03/29/17 07:33	JEF	TAL CHI
Total Recoverable	Analysis	6020		1	378100	03/30/17 14:10	FXG	TAL CHI
Total/NA	Analysis	300.0		10	378645	04/03/17 14:30	PMF	TAL CHI
Total/NA	Analysis	353.2		25	377728	03/28/17 01:42	HMW	TAL CHI
Total/NA	Prep	SM4500Norg_C			378378	04/03/17 10:50	HMW	TAL CHI
Total/NA	Analysis	4500 NH3 G		1	378522	04/03/17 13:32	MTB	TAL CHI
Total/NA	Analysis	9060A		1	378114	03/29/17 00:25	HMW	TAL CHI
Total/NA	Analysis	SM 2540C		1	377382	03/26/17 22:14	CLB	TAL CHI
Total/NA	Prep	SM 4500 NH3 B			377281	03/24/17 17:07	JBJ	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	377306		JBJ	TAL CHI
					(Start)	03/24/17 19:56		
					(End)	03/24/17 19:59		
Total/NA	Prep	SM 5220			377444	03/27/17 10:23	MAN	TAL CHI
Total/NA	Analysis	SM 5220C		1	377671	03/28/17 12:30	MAN	TAL CHI

Client Sample ID: CSD-4 DUP

Lab Sample ID: 500-125563-7
Matrix: Water
Date Collected: 03/22/17 08:50
Date Received: 03/24/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			377788	03/29/17 07:33	JEF	TAL CHI
Total Recoverable	Analysis	6020		1	378100	03/30/17 14:14	FXG	TAL CHI
Total/NA	Analysis	300.0		10	378645	04/03/17 15:08	PMF	TAL CHI
Total/NA	Analysis	353.2		25	377728	03/28/17 01:44	HMW	TAL CHI
Total/NA	Prep	SM4500Norg_C			378378	04/03/17 10:50	HMW	TAL CHI
Total/NA	Analysis	4500 NH3 G		1	378522	04/03/17 13:34	MTB	TAL CHI
Total/NA	Analysis	9060A		1	378114	03/29/17 00:41	HMW	TAL CHI
Total/NA	Analysis	SM 2540C		1	377382	03/26/17 22:17	CLB	TAL CHI
Total/NA	Prep	SM 4500 NH3 B			377281	03/24/17 17:07	JBJ	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	377306		JBJ	TAL CHI
					(Start)	03/24/17 19:59		
					(End)	03/24/17 20:02		

Lab Chronicle

Client: RJN Environmental Services LLC
Project/Site: Central Sands Dairy - 14-203

TestAmerica Job ID: 500-125563-1

Client Sample ID: CSD-4 DUP — Lab Sample ID: 500-125563-7

Date Collected: 03/22/17 08:50
Date Received: 03/24/17 08:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SM 5220			377444	03/27/17 10:23	MAN	TAL CHI
Total/NA	Analysis	SM 5220C		1	377671	03/28/17 12:31	MAN	TAL CHI

Client Sample ID: CSD-5 — Lab Sample ID: 500-125563-8

Date Collected: 03/22/17 15:00
Date Received: 03/24/17 08:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			377788	03/29/17 07:33	JEF	TAL CHI
Total Recoverable	Analysis	6020		1	378100	03/30/17 14:26	FXG	TAL CHI
Total/NA	Analysis	300.0		2	378645	04/03/17 15:21	PMF	TAL CHI
Total/NA	Analysis	353.2		1	377728	03/27/17 23:40	HMW	TAL CHI
Total/NA	Prep	SM4500Norg_C			378378	04/03/17 10:50	HMW	TAL CHI
Total/NA	Analysis	4500 NH3 G		1	378522	04/03/17 13:43	MTB	TAL CHI
Total/NA	Analysis	9060A		1	378114	03/29/17 00:57	HMW	TAL CHI
Total/NA	Analysis	SM 2540C		1	377382	03/26/17 22:19	CLB	TAL CHI
Total/NA	Prep	SM 4500 NH3 B			377281	03/24/17 17:07	JBJ	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	377306		JBJ	TAL CHI
					(Start)	03/24/17 20:02		
					(End)	03/24/17 20:05		
Total/NA	Prep	SM 5220			377444	03/27/17 10:23	MAN	TAL CHI
Total/NA	Analysis	SM 5220C		1	377671	03/28/17 12:32	MAN	TAL CHI

Client Sample ID: CSD-6 — Lab Sample ID: 500-125563-9

Date Collected: 03/22/17 11:20
Date Received: 03/24/17 08:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			377788	03/29/17 07:33	JEF	TAL CHI
Total Recoverable	Analysis	6020		1	378100	03/30/17 14:29	FXG	TAL CHI
Total/NA	Analysis	300.0		5	378645	04/03/17 15:33	PMF	TAL CHI
Total/NA	Analysis	353.2		25	377728	03/28/17 01:46	HMW	TAL CHI
Total/NA	Prep	SM4500Norg_C			378378	04/03/17 10:50	HMW	TAL CHI
Total/NA	Analysis	4500 NH3 G		1	378522	04/03/17 13:46	MTB	TAL CHI
Total/NA	Analysis	9060A		1	378114	03/29/17 01:14	HMW	TAL CHI
Total/NA	Analysis	SM 2540C		1	377382	03/26/17 22:22	CLB	TAL CHI
Total/NA	Prep	SM 4500 NH3 B			377281	03/24/17 17:07	JBJ	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	377306		JBJ	TAL CHI
					(Start)	03/24/17 20:10		
					(End)	03/24/17 20:13		
Total/NA	Prep	SM 5220			377444	03/27/17 10:23	MAN	TAL CHI
Total/NA	Analysis	SM 5220C		1	377671	03/28/17 12:33	MAN	TAL CHI

Lab Chronicle

Client: RJN Environmental Services LLC
Project/Site: Central Sands Dairy - 14-203

TestAmerica Job ID: 500-125563-1

Client Sample ID: CSD-7

Lab Sample ID: 500-125563-10
Matrix: Water

Date Collected: 03/22/17 10:50
Date Received: 03/24/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			377788	03/29/17 07:33	JEF	TAL CHI
Total Recoverable	Analysis	6020		1	378100	03/30/17 14:33	FXG	TAL CHI
Total/NA	Analysis	300.0		10	378645	04/03/17 15:46	PMF	TAL CHI
Total/NA	Analysis	353.2		25	377728	03/28/17 01:51	HMW	TAL CHI
Total/NA	Prep	SM4500Norg_C			378378	04/03/17 10:50	HMW	TAL CHI
Total/NA	Analysis	4500 NH3 G		1	378522	04/03/17 13:49	MTB	TAL CHI
Total/NA	Analysis	9060A		1	378114	03/29/17 02:10	HMW	TAL CHI
Total/NA	Analysis	SM 2540C		1	377382	03/26/17 22:25	CLB	TAL CHI
Total/NA	Prep	SM 4500 NH3 B			377281	03/24/17 17:07	JBJ	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	377306		JBJ	TAL CHI
					(Start)	03/24/17 20:13		
					(End)	03/24/17 20:16		
Total/NA	Prep	SM 5220			377832	03/29/17 10:24	MAN	TAL CHI
Total/NA	Analysis	SM 5220C		1	377882	03/29/17 13:54	MAN	TAL CHI

Client Sample ID: CSD-8

Lab Sample ID: 500-125563-11
Matrix: Water

Date Collected: 03/22/17 09:45
Date Received: 03/24/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			377788	03/29/17 07:33	JEF	TAL CHI
Total Recoverable	Analysis	6020		1	378100	03/30/17 14:37	FXG	TAL CHI
Total/NA	Analysis	300.0		10	378645	04/03/17 15:58	PMF	TAL CHI
Total/NA	Analysis	353.2		50	378157	03/30/17 19:44	HMW	TAL CHI
Total/NA	Prep	SM4500Norg_C			378378	04/03/17 10:50	HMW	TAL CHI
Total/NA	Analysis	4500 NH3 G		1	378522	04/03/17 13:51	MTB	TAL CHI
Total/NA	Analysis	9060A		1	378114	03/29/17 02:26	HMW	TAL CHI
Total/NA	Analysis	SM 2540C		1	377382	03/26/17 22:27	CLB	TAL CHI
Total/NA	Prep	SM 4500 NH3 B			377742	03/28/17 20:10	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	377776	03/28/17 23:05	HMW	TAL CHI
Total/NA	Prep	SM 5220			377832	03/29/17 10:24	MAN	TAL CHI
Total/NA	Analysis	SM 5220C		1	377882	03/29/17 13:55	MAN	TAL CHI

Client Sample ID: CSD-9

Lab Sample ID: 500-125563-12
Matrix: Water

Date Collected: 03/22/17 11:55
Date Received: 03/24/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			377788	03/29/17 07:33	JEF	TAL CHI
Total Recoverable	Analysis	6020		1	378100	03/30/17 14:41	FXG	TAL CHI
Total/NA	Analysis	300.0		2	378645	04/03/17 16:11	PMF	TAL CHI
Total/NA	Analysis	353.2		5	377728	03/28/17 00:59	HMW	TAL CHI

Lab Chronicle

Client: RJN Environmental Services LLC
Project/Site: Central Sands Dairy - 14-203

TestAmerica Job ID: 500-125563-1

Client Sample ID: CSD-9

Lab Sample ID: 500-125563-12
Matrix: Water

Date Collected: 03/22/17 11:55
Date Received: 03/24/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SM4500Norg_C			378378	04/03/17 10:50	HMW	TAL CHI
Total/NA	Analysis	4500 NH3 G		1	378522	04/03/17 13:54	MTB	TAL CHI
Total/NA	Analysis	9060A		1	378114	03/29/17 02:43	HMW	TAL CHI
Total/NA	Analysis	SM 2540C		1	377382	03/26/17 22:30	CLB	TAL CHI
Total/NA	Prep	SM 4500 NH3 B			377742	03/28/17 20:10	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	377776	03/28/17 23:08	HMW	TAL CHI
Total/NA	Prep	SM 5220			377832	03/29/17 10:24	MAN	TAL CHI
Total/NA	Analysis	SM 5220C		1	377882	03/29/17 13:56	MAN	TAL CHI

Client Sample ID: CSD-9 DUP

Lab Sample ID: 500-125563-13
Matrix: Water

Date Collected: 03/22/17 11:55
Date Received: 03/24/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			377788	03/29/17 07:33	JEF	TAL CHI
Total Recoverable	Analysis	6020		1	378100	03/30/17 14:44	FXG	TAL CHI
Total/NA	Analysis	300.0		2	378645	04/03/17 16:49	PMF	TAL CHI
Total/NA	Analysis	353.2		5	377728	03/28/17 01:00	HMW	TAL CHI
Total/NA	Prep	SM4500Norg_C			378378	04/03/17 10:50	HMW	TAL CHI
Total/NA	Analysis	4500 NH3 G		1	378522	04/03/17 14:03	MTB	TAL CHI
Total/NA	Analysis	9060A		1	378114	03/29/17 02:59	HMW	TAL CHI
Total/NA	Analysis	SM 2540C		1	377382	03/26/17 22:32	CLB	TAL CHI
Total/NA	Prep	SM 4500 NH3 B			377742	03/28/17 20:10	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	377776	03/28/17 23:11	HMW	TAL CHI
Total/NA	Prep	SM 5220			377832	03/29/17 10:24	MAN	TAL CHI
Total/NA	Analysis	SM 5220C		1	377882	03/29/17 13:57	MAN	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: RJN Environmental Services LLC
Project/Site: Central Sands Dairy - 14-203

TestAmerica Job ID: 500-125563-1

Laboratory: TestAmerica Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	999580010	08-31-17

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Chain of Custody Record

Lab Job #: 500-125563

Chain of Custody Number:

Page 1 of 2

Temperature °C of Cooler: (3.3)(2.1)

Report To (optional)
Contact: BOB NAUTA
Company: RJN ENV. SVC.
Address: 4811 MONONA DR.
Address: MONONA, WI 53716
Phone: 608-576-3001
Fax:
E-Mail: rjnesllc@charter.net

Bill To (optional)
Contact: chevelle7@charter.net
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Client: RJN ENV. SVC.
Client Project #: 14-203
Project Name: CENTRAL SANDS DAIRY
Project Location/State: WI
Lab Project #:
Sampler: NAUTA
Lab PM:

Preservative Key: 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	TDS Chloride (Preservative 8)	N+N COD NH3 TKN TOC (Preservative 2)	Potassium (Preservative 3)							Comments
1		CSD-1S	3/22	1345	4	W	X	X	X							
2		CSD-1D		1320	4	W	X	X	X							
3		CSD-2		1425	4	W	X	X	X							
4		CSD-3S		0820	4	W	X	X	X							
5		CSD-3D		0750	4	W	X	X	X							
6		CSD-4		0850	4	W	X	X	X							
7		CSD-4 DUP		0850	4	W	X	X	X							
8		CSD-5		1500	4	W	X	X	X							
9		CSD-6		1120	4	W	X	X	X							
10		CSD-7		1050	4	W	X	X	X							

Turnaround Time Required (Business Days) STD. TURN
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days _____ Other
Requested Due Date _____

Sample Disposal: ☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Robert Nauta	RJN	3/23/17	1015	[signature]	TA	03/24/17	0845

Lab Courier
Shipped
Hand Delivered

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

500-125563 COC

4/5/2017

TAL-4124-580 (1209)

ED_004625A_00007605-00075

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

(optional)
Report To
Contact: BOB NAUTA
Company: RJN ENV. SVC.
Address: 4811 MONONA DR.
Address: MONONA, WI 53716
Phone:
Fax:
E-Mail: rjnesllc@charter.net

(optional)
Bill To
Contact: chevelle7@charter.net
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-125563
Chain of Custody Number:
Page 2 of 2
Temperature °C of Cooler:

Client: RJN ENV. SVC.
Client Project #: 14-203
Project Name: CENTRAL SANDS DAIRY
Project Location/State: WI
Lab Project #:
Sampler: NAUTA
Lab PM:

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	TDS CHLORIDE (8)	N+N COD NH3 TKN TOC (2)	POTASSIUM (3)							Comments
11		CSD-8	3/22	0945	4	W	X	X	X							
12		CSD-9	3/22	1155	4	W	X	X	X							
13		CSD-9 DUP	3/22	1155	4	W	X	X	X							

Turnaround Time Required (Business Days) STD. TURN
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days _____ Other
Requested Due Date _____

Sample Disposal: ☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	RJN	~~3/23/17~~ 3/23/17	1015	[signature]	TA	03/24/17	0845

Lab Courier:
Shipped:
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

4/5/2017
TAL-4124-506 (1209)

ED_004625A_00007605-00076

Login Sample Receipt Checklist

Client: RJN Environmental Services LLC

Job Number: 500-125563-1

Login Number: 125563
List Number: 1
Creator: Kelsey, Shawn M

List Source: TestAmerica Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	(3.3)(2.1)c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

ATTACHMENT C
WISCONSIN STATE LABORATORY OF HYGIENE REPORTS

Wisconsin State Laboratory of Hygiene
UNIVERSITY OF WISCONSIN-MADISON

Wisconsin State Laboratory of Hygiene
2601 Agriculture Drive, PO Box 7996
Madison, WI 53707-7996
(800)442-4618 - FAX (608)224-6213
http://www.slh.wisc.edu

Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Peter Shult, Ph.D., Interim Director

Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: 305830001

Report To:
RJN ENVIRONMENTAL SVCS
BOB NAUTA
4631 COUNTY RD A
OREGON, WI 53575

Invoice To:
RJN ENVIRONMENTAL SVCS
BOB NAUTA
4631 COUNTY RD A
OREGON, WI 53575
Customer ID: 340214

Collection Date: 3/22/2017 1:45:00 PM
Owner:

Collected By: BOB NAUTA
Well Completion Date: 10/01/14

Unique Well #: VY778
Well Construction: DRILLED
County: JUNEAU
Driller or Pump Installers License #:
Sampling Location:
Sampling Point: OTHER

Date Received: 3/23/2017
Date Reported: 3/24/2017
Sample Reason: OTHER

Sample Comments

MON WELL VY778 CSD-1S

Microbiology

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 03/23/17 Analysis Date 03/24/17					
Total Coliform - Colilert-MPN QT	SM9223BMPN	<1	MPN/100 mL		1
E. Coli - Colilert-MPN QT	SM9223BMPN	<1	MPN/100 mL		1

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Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Peter Shult, Ph.D., Interim Director

Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: 305830001

List of Abbreviations:

LOD = Level of detection
LOQ = Level of quantification
ND = None detected. Results are less than the LOD
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Z next to result = Result is between 0 (zero) and LOD
if LOD=LOQ, Limits were not statistically derived

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Responsible Party

Microbiology: Sharon Kluender, Lab Manager, 608-224-6262
Inorganic Chemistry: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282
Metals: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282
Organic Chemistry: Al Spallato, Lab Manager, 608-224-6269
Emergency Chemical Response: Noel Stanton, Lab Manager, 608-224-6251
Environmental Toxicology: Tracy Hanke, Lab Manager, 608-224-6270

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Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Peter Shult, Ph.D., Interim Director

Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: 305831001

Report To:
RJN ENVIRONMENTAL SVCS
BOB NAUTA
4631 COUNTY RD A
OREGON, WI 53575

Invoice To:
RJN ENVIRONMENTAL SVCS
BOB NAUTA
4631 COUNTY RD A
OREGON, WI 53575
Customer ID: 340214

Collection Date: 3/22/2017 1:20:00 PM
Owner:

Collected By: BOB NAUTA
Well Completion Date: 10/01/14

Unique Well #: VY779
Well Construction: DRILLED
County: JUNEAU
Driller or Pump Installers License #:
Sampling Location:
Sampling Point: OTHER

Date Received: 3/23/2017
Date Reported: 3/24/2017
Sample Reason: OTHER

Sample Comments

VY779 CSD-1D MON. WELL

Microbiology

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 03/23/17 Analysis Date 03/24/17					
Total Coliform - Colilert-MPN QT	SM9223BMPN	3	MPN/100 mL		1
E. Coli - Colilert-MPN QT	SM9223BMPN	<1	MPN/100 mL		1

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Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Peter Shult, Ph.D., Interim Director

Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: 305831001

List of Abbreviations:

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LOQ = Level of quantification
ND = None detected. Results are less than the LOD
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Z next to result = Result is between 0 (zero) and LOD
if LOD=LOQ, Limits were not statistically derived

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Inorganic Chemistry: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282
Metals: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282
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Emergency Chemical Response: Noel Stanton, Lab Manager, 608-224-6251
Environmental Toxicology: Tracy Hanke, Lab Manager, 608-224-6270

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Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Peter Shult, Ph.D., Interim Director

Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: 305833001

Report To:
RJN ENVIRONMENTAL SVCS
BOB NAUTA
4631 COUNTY RD A
OREGON, WI 53575

Invoice To:
RJN ENVIRONMENTAL SVCS
BOB NAUTA
4631 COUNTY RD A
OREGON, WI 53575
Customer ID: 340214

Collection Date: 3/22/2017 2:25:00 PM
Owner:

Collected By: BOB NAUTA
Well Completion Date: 10/01/14

Unique Well #: VU928
Well Construction: DRILLED
County: JUNEAU
Driller or Pump Installers License #:
Sampling Location:
Sampling Point: OTHER

Date Received: 3/23/2017
Date Reported: 3/24/2017
Sample Reason: OTHER

Sample Comments

VU928 CSD-2 MON. WELL

Microbiology

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 03/23/17 Analysis Date 03/24/17					
Total Coliform - Colilert-MPN QT	SM9223BMPN	<1	MPN/100 mL		1
E. Coli - Colilert-MPN QT	SM9223BMPN	<1	MPN/100 mL		1

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Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Peter Shult, Ph.D., Interim Director

Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: 305833001

List of Abbreviations:

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LOQ = Level of quantification
ND = None detected. Results are less than the LOD
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Inorganic Chemistry: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282
Metals: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282
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Emergency Chemical Response: Noel Stanton, Lab Manager, 608-224-6251
Environmental Toxicology: Tracy Hanke, Lab Manager, 608-224-6270

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Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Peter Shult, Ph.D., Interim Director

Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: 305835001

Report To:
RJN ENVIRONMENTAL SVCS
BOB NAUTA
4631 COUNTY RD A
OREGON, WI 53575

Invoice To:
RJN ENVIRONMENTAL SVCS
BOB NAUTA
4631 COUNTY RD A
OREGON, WI 53575
Customer ID: 340214

Collection Date: 3/22/2017 8:20:00 AM
Owner:

Collected By: BOB NAUTA
Well Completion Date: 10/01/14

Unique Well #: VU925
Well Construction: DRILLED
County: JUNEAU
Driller or Pump Installers License #:
Sampling Location:
Sampling Point: OTHER

Date Received: 3/23/2017
Date Reported: 3/24/2017
Sample Reason: OTHER

Sample Comments

VU925 CSD-3S MON. WELL

Microbiology

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 03/23/17 Analysis Date 03/24/17					
Total Coliform - Colilert-MPN QT	SM9223BMPN	<1	MPN/100 mL		1
E. Coli - Colilert-MPN QT	SM9223BMPN	<1	MPN/100 mL		1

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Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Peter Shult, Ph.D., Interim Director

Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: 305835001

List of Abbreviations:

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LOQ = Level of quantification
ND = None detected. Results are less than the LOD
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Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Peter Shult, Ph.D., Interim Director

Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: 305836001

Report To:
RJN ENVIRONMENTAL SVCS
BOB NAUTA
4631 COUNTY RD A
OREGON, WI 53575

Invoice To:
RJN ENVIRONMENTAL SVCS
BOB NAUTA
4631 COUNTY RD A
OREGON, WI 53575
Customer ID: 340214

Collection Date: 3/22/2017 7:50:00 AM
Owner:

Collected By: BOB NAUTA
Well Completion Date: 10/01/14

Unique Well #: VU926
Well Construction: DRILLED
County: JUNEAU
Driller or Pump Installers License #:
Sampling Location:
Sampling Point: OTHER

Date Received: 3/23/2017
Date Reported: 3/24/2017
Sample Reason: OTHER

Sample Comments

VU926 CSD-3D MON. WELL

Microbiology

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 03/23/17 Analysis Date 03/24/17					
Total Coliform - Colilert-MPN QT	SM9223BMPN	<1	MPN/100 mL		1
E. Coli - Colilert-MPN QT	SM9223BMPN	<1	MPN/100 mL		1

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http://www.slh.wisc.edu

Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Peter Shult, Ph.D., Interim Director

Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: 305836001

List of Abbreviations:

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LOQ = Level of quantification
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Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Peter Shult, Ph.D., Interim Director

Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: 305837001

Report To:
RJN ENVIRONMENTAL SVCS
BOB NAUTA
4631 COUNTY RD A
OREGON, WI 53575

Invoice To:
RJN ENVIRONMENTAL SVCS
BOB NAUTA
4631 COUNTY RD A
OREGON, WI 53575
Customer ID: 340214

Collection Date: 3/22/2017 8:50:00 AM
Owner:

Collected By: BOB NAUTA
Well Completion Date: 10/01/14

Unique Well #: VU927
Well Construction: DRILLED
County: JUNEAU
Driller or Pump Installers License #:
Sampling Location:
Sampling Point: OTHER

Date Received: 3/23/2017
Date Reported: 3/24/2017
Sample Reason: OTHER

Sample Comments

VU927 CSD-4 MON. WELL

Microbiology

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 03/23/17 Analysis Date 03/24/17					
Total Coliform - Colilert-MPN QT	SM9223BMPN	<1	MPN/100 mL		1
E. Coli - Colilert-MPN QT	SM9223BMPN	<1	MPN/100 mL		1

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Madison, WI 53707-7996
(800)442-4618 - FAX (608)224-6213
http://www.slh.wisc.edu

Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Peter Shult, Ph.D., Interim Director

Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: 305837001

List of Abbreviations:

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LOQ = Level of quantification
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if LOD=LOQ, Limits were not statistically derived

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Inorganic Chemistry: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282
Metals: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282
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Emergency Chemical Response: Noel Stanton, Lab Manager, 608-224-6251
Environmental Toxicology: Tracy Hanke, Lab Manager, 608-224-6270

Wisconsin State Laboratory of Hygiene
UNIVERSITY OF WISCONSIN-MADISON

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2601 Agriculture Drive, PO Box 7996
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(800)442-4618 - FAX (608)224-6213
http://www.slh.wisc.edu

Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Peter Shult, Ph.D., Interim Director

Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: 305840001

Report To:
RJN ENVIRONMENTAL SVCS
BOB NAUTA
4631 COUNTY RD A
OREGON, WI 53575

Invoice To:
RJN ENVIRONMENTAL SVCS
BOB NAUTA
4631 COUNTY RD A
OREGON, WI 53575
Customer ID: 340214

Collection Date: 3/22/2017 8:50:00 AM
Owner:

Collected By: BOB NAUTA
Well Completion Date: 10/01/14

Unique Well #: VU927
Well Construction: DRILLED
County: JUNEAU
Driller or Pump Installers License #:
Sampling Location:
Sampling Point: OTHER

Date Received: 3/23/2017
Date Reported: 3/24/2017
Sample Reason: OTHER

Microbiology

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 03/23/17 Analysis Date 03/24/17					
Total Coliform - Colilert-MPN QT	SM9223BMPN	<1	MPN/100 mL		1
E. Coli - Colilert-MPN QT	SM9223BMPN	<1	MPN/100 mL		1

List of Abbreviations:

LOD = Level of detection
LOQ = Level of quantification
ND = None detected. Results are less than the LOD
F next to result = Result is between LOD and LOQ
Z next to result = Result is between 0 (zero) and LOD
if LOD=LOQ, Limits were not statistically derived

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Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Peter Shult, Ph.D., Interim Director

Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: 305840001

Responsible Party

Microbiology: Sharon Kluender, Lab Manager, 608-224-6262
Inorganic Chemistry: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282
Metals: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282
Organic Chemistry: Al Spallato, Lab Manager, 608-224-6269
Emergency Chemical Response: Noel Stanton, Lab Manager, 608-224-6251
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Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Peter Shult, Ph.D., Interim Director

Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: 305841001

Report To:
RJN ENVIRONMENTAL SVCS
BOB NAUTA
4631 COUNTY RD A
OREGON, WI 53575

Invoice To:
RJN ENVIRONMENTAL SVCS
BOB NAUTA
4631 COUNTY RD A
OREGON, WI 53575
Customer ID: 340214

Collection Date: 3/22/2017 3:00:00 PM
Owner:

Collected By: BOB NAUTA
Well Completion Date: 08/01/16

Unique Well #: VY742
Well Construction: DRILLED
County: JUNEAU
Driller or Pump Installers License #:
Sampling Location:
Sampling Point: OTHER

Date Received: 3/23/2017
Date Reported: 3/24/2017
Sample Reason: OTHER

Sample Comments

VY742 CSD-5 MON. WELL

Microbiology

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 03/23/17 Analysis Date 03/24/17					
Total Coliform - Colilert-MPN QT	SM9223BMPN	2	MPN/100 mL		1
E. Coli - Colilert-MPN QT	SM9223BMPN	<1	MPN/100 mL		1

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Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Peter Shult, Ph.D., Interim Director

Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: 305841001

List of Abbreviations:

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LOQ = Level of quantification
ND = None detected. Results are less than the LOD
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if LOD=LOQ, Limits were not statistically derived

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Responsible Party

Microbiology: Sharon Kluender, Lab Manager, 608-224-6262
Inorganic Chemistry: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282
Metals: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282
Organic Chemistry: Al Spallato, Lab Manager, 608-224-6269
Emergency Chemical Response: Noel Stanton, Lab Manager, 608-224-6251
Environmental Toxicology: Tracy Hanke, Lab Manager, 608-224-6270

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Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Peter Shult, Ph.D., Interim Director

Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: 305842001

Report To:
RJN ENVIRONMENTAL SVCS
BOB NAUTA
4631 COUNTY RD A
OREGON, WI 53575

Invoice To:
RJN ENVIRONMENTAL SVCS
BOB NAUTA
4631 COUNTY RD A
OREGON, WI 53575
Customer ID: 340214

Collection Date: 3/22/2017 11:20:00 AM
Owner:

Collected By: BOB NAUTA
Well Completion Date: 08/01/16

Unique Well #: VY715
Well Construction: DRILLED
County: JUNEAU
Driller or Pump Installers License #:
Sampling Location:
Sampling Point: OTHER

Date Received: 3/23/2017
Date Reported: 3/24/2017
Sample Reason: OTHER

Sample Comments

VY715 CSD-6 MON. WELL

Microbiology

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 03/23/17 Analysis Date 03/24/17					
Total Coliform - Colilert-MPN QT	SM9223BMPN	6	MPN/100 mL		1
E. Coli - Colilert-MPN QT	SM9223BMPN	<1	MPN/100 mL		1

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Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Peter Shult, Ph.D., Interim Director

Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: 305842001

List of Abbreviations:

LOD = Level of detection
LOQ = Level of quantification
ND = None detected. Results are less than the LOD
F next to result = Result is between LOD and LOQ
Z next to result = Result is between 0 (zero) and LOD
if LOD=LOQ, Limits were not statistically derived

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Responsible Party

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Inorganic Chemistry: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282
Metals: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282
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Emergency Chemical Response: Noel Stanton, Lab Manager, 608-224-6251
Environmental Toxicology: Tracy Hanke, Lab Manager, 608-224-6270

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Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Peter Shult, Ph.D., Interim Director

Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: 305843001

Report To:
RJN ENVIRONMENTAL SVCS
BOB NAUTA
4631 COUNTY RD A
OREGON, WI 53575

Invoice To:
RJN ENVIRONMENTAL SVCS
BOB NAUTA
4631 COUNTY RD A
OREGON, WI 53575
Customer ID: 340214

Collection Date: 3/22/2017 10:50:00 AM
Owner:

Collected By: BOB NAUTA
Well Completion Date: 08/01/16

Unique Well #: VY713
Well Construction: DRILLED
County: JUNEAU
Driller or Pump Installers License #:
Sampling Location:
Sampling Point: OTHER

Date Received: 3/23/2017
Date Reported: 3/24/2017
Sample Reason: OTHER

Sample Comments

VY713 CSD-7 MON. WELL

Microbiology

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 03/23/17 Analysis Date 03/24/17					
Total Coliform - Colilert-MPN QT	SM9223BMPN	921	MPN/100 mL		1
E. Coli - Colilert-MPN QT	SM9223BMPN	12	MPN/100 mL		1

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Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Peter Shult, Ph.D., Interim Director

Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: 305843001

List of Abbreviations:

LOD = Level of detection
LOQ = Level of quantification
ND = None detected. Results are less than the LOD
F next to result = Result is between LOD and LOQ
Z next to result = Result is between 0 (zero) and LOD
if LOD=LOQ, Limits were not statistically derived

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Responsible Party

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Inorganic Chemistry: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282
Metals: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282
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Emergency Chemical Response: Noel Stanton, Lab Manager, 608-224-6251
Environmental Toxicology: Tracy Hanke, Lab Manager, 608-224-6270

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Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Peter Shult, Ph.D., Interim Director

Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: 305844001

Report To:
RJN ENVIRONMENTAL SVCS
BOB NAUTA
4631 COUNTY RD A
OREGON, WI 53575

Invoice To:
RJN ENVIRONMENTAL SVCS
BOB NAUTA
4631 COUNTY RD A
OREGON, WI 53575
Customer ID: 340214

Collection Date: 3/22/2017 9:45:00 AM
Owner:

Collected By: BOB NAUTA
Well Completion Date: 08/01/16

Unique Well #: VY744
Well Construction: DRILLED
County: JUNEAU
Driller or Pump Installers License #:
Sampling Location:
Sampling Point: OTHER

Date Received: 3/23/2017
Date Reported: 3/24/2017
Sample Reason: OTHER

Sample Comments

VY744 CSD-8 MON. WELL

Microbiology

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 03/23/17 Analysis Date 03/24/17					
Total Coliform - Colilert-MPN QT	SM9223BMPN	<1	MPN/100 mL		1
E. Coli - Colilert-MPN QT	SM9223BMPN	<1	MPN/100 mL		1

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Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Peter Shult, Ph.D., Interim Director

Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: 305844001

List of Abbreviations:

LOD = Level of detection
LOQ = Level of quantification
ND = None detected. Results are less than the LOD
F next to result = Result is between LOD and LOQ
Z next to result = Result is between 0 (zero) and LOD
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Responsible Party

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Inorganic Chemistry: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282
Metals: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282
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Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Peter Shult, Ph.D., Interim Director

Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: 305845001

Report To:
RJN ENVIRONMENTAL SVCS
BOB NAUTA
4631 COUNTY RD A
OREGON, WI 53575

Invoice To:
RJN ENVIRONMENTAL SVCS
BOB NAUTA
4631 COUNTY RD A
OREGON, WI 53575
Customer ID: 340214

Collection Date: 3/22/2017 11:55:00 AM
Owner:

Collected By: BOB NAUTA
Well Completion Date: 10/01/16

Unique Well #: VY811
Well Construction: DRILLED
County: JUNEAU
Driller or Pump Installers License #:
Sampling Location:
Sampling Point: OTHER

Date Received: 3/23/2017
Date Reported: 3/24/2017
Sample Reason: OTHER

Sample Comments

VY811 CSD-9 MON. WELL

Microbiology

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 03/23/17 Analysis Date 03/24/17					
Total Coliform - Colilert-MPN QT	SM9223BMPN	4	MPN/100 mL		1
E. Coli - Colilert-MPN QT	SM9223BMPN	<1	MPN/100 mL		1

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Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Peter Shult, Ph.D., Interim Director

Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: 305845001

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Inorganic Chemistry: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282
Metals: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282
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Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Peter Shult, Ph.D., Interim Director

Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: 305846001

Report To:
RJN ENVIRONMENTAL SVCS
BOB NAUTA
4631 COUNTY RD A
OREGON, WI 53575

Invoice To:
RJN ENVIRONMENTAL SVCS
BOB NAUTA
4631 COUNTY RD A
OREGON, WI 53575
Customer ID: 340214

Collection Date: 3/22/2017 11:55:00 AM
Owner:

Collected By: BOB NAUTA
Well Completion Date: 10/01/16

Unique Well #: VY811
Well Construction: DRILLED
County: JUNEAU
Driller or Pump Installers License #:
Sampling Location:
Sampling Point: OTHER

Date Received: 3/23/2017
Date Reported: 3/24/2017
Sample Reason: OTHER

Sample Comments

VY811 CSD 9 DUP MON. WELL

Microbiology

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 03/23/17 Analysis Date 03/24/17					
Total Coliform - Colilert-MPN QT	SM9223BMPN	5	MPN/100 mL		1
E. Coli - Colilert-MPN QT	SM9223BMPN	<1	MPN/100 mL		1

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Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: 305846001

List of Abbreviations:

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LOQ = Level of quantification
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Metals: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282
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