

George DeRuyter Dairy
 Revised February 2012

Station Location	Sample Number	Analysis Type	Analyte	Result	Qualifier	Units
SO-03	10154233		Ammonia Solid	1470		mg/Kg
			NO3N/Total Solid	32.8		mg/Kg
			Total Nitrogen/Solid	9210		mg/Kg
		<i>Pesticides</i>	2,3,4,5-Tetrachlorophenol	45	U	ug/Kg
			2,3,4,6-Tetrachlorophenol	45	U	ug/Kg
			2,4,5-T	45	U	ug/Kg
			2,4,5-Trichlorophenol	45	U	ug/Kg
			2,4,6-Trichlorophenol	45	UJ	ug/Kg
			2,4-D	45	U	ug/Kg
			2,4-DB	45	U	ug/Kg
			3,5-Dichlorobenzoic acid	45	U	ug/Kg
			4-Nitrophenol	31	J	ug/Kg
			Acifluorfen	45	U	ug/Kg
			Alachlor	71	U	ug/Kg
			Atrazine	71	U	ug/Kg
			Azinphos-methyl	71	UJ	ug/Kg
			Bentazon	45	U	ug/Kg
			Benzonitrile, 2,6-dichloro-	71	U	ug/Kg
			Bromoxynil	45	U	ug/Kg
			Chloramben	45	UJ	ug/Kg
			Chlorpyrifos, Ethyl	11	J	ug/Kg
			Clopyralid	45	U	ug/Kg
			DACTHAL-DCPA	9	J	ug/Kg
			Diazinon	71	U	ug/Kg
			Dicamba	4.1	J	ug/Kg
			Dichlorprop	45	U	ug/Kg
			Diclofop, Methyl	45	UJ	ug/Kg
			Dinoseb	45	UJ	ug/Kg
			Diuron	71	UJ	ug/Kg
			Endosulfan I	71	U	ug/Kg
			Endosulfan II	71	U	ug/Kg
			Endosulfan Sulfate	71	U	ug/Kg
			Fenhexamid	71	UJ	ug/Kg
			Fenpropathrin	71	U	ug/Kg
			Imidan	71	UJ	ug/Kg
			Ioxynil	45	U	ug/Kg
			Kresoxim-methyl	71	U	ug/Kg
			MCPA	45	U	ug/Kg
			MCPP	45	U	ug/Kg
			Metribuzin	71	UJ	ug/Kg
			Myclobutanil	71	U	ug/Kg
			Oxyfluorfen	71	U	ug/Kg
			Pendimethalin	71	U	ug/Kg
			Pentachlorophenol	0.9	J	ug/Kg
			Picloram	45	U	ug/Kg
			Propargite	71	U	ug/Kg
			Silvex	45	U	ug/Kg
			Simazine	71	U	ug/Kg
			SURFLAN	140	UJ	ug/Kg
			Terbacil	71	U	ug/Kg
			Trichlorpyr	45	U	ug/Kg
			Triflumizole	71	U	ug/Kg
			Trifluralin	71	U	ug/Kg
		<i>Steroids / Hormones</i>	11-Keto Testosterone	0.1	U	ug/Kg
			17a-Hydroxyprogesterone	1.94		ug/Kg
			17alpha-trenbolone	0.1	U	ug/Kg

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			17beta-estradiol	12.4		ug/Kg
			17beta-trenbolone	0.1	U	ug/Kg
			4-Androstenedione	33.2		ug/Kg
			a-Estradiol	34.7		ug/Kg
			Androstenedienedione	29.4		ug/Kg
			Androsterone	0.1	U	ug/Kg
			a-Zearalanol	0.1	U	ug/Kg
			a-Zearalenol	0.1	U	ug/Kg
			b-Zearalanol	0.1	U	ug/Kg
			b-Zearalenol	0.1	U	ug/Kg
			Epitestosterone	8.47		ug/Kg
			Estriol	0.1	U	ug/Kg
			Estrone	0.1	U	ug/Kg
			Ethynyl Estradiol	4.22		ug/Kg
			Melengesterol Acetate	0.1	U	ug/Kg
			Progesterone	70.4		ug/Kg
			Testosterone	2.95		ug/Kg
		<i>Veterinary Pharmaceuticals</i>	Chlortetracycline(total)	0.7		ug/Kg
			Erythromycin	2.1		ug/Kg
			Lincomycin	1.5		ug/Kg
			Monensin	109		ug/Kg
			Oxytetracycline	251		ug/Kg
			Ractopamine	0.5	U	ug/Kg
			Sulfachloropyridazine	0.5	U	ug/Kg
			Sulfadimethoxine	0.5	U	ug/Kg
			Sulfamerazine	0.5	U	ug/Kg
			Sulfamethazine	0.5	U	ug/Kg
			Sulfamethazole	0.5	U	ug/Kg
			Sulfamethoxazole	0.5	U	ug/Kg
			Sulfathiazole	0.5	U	ug/Kg
			Tetracyline	954		ug/Kg
			Tiamulin	0.5	U	ug/Kg
			Tylosin	14.8		ug/Kg
			Virginiamycin	0.5	U	ug/Kg
		<i>Wastewater Pharmaceuticals</i>	Acetaminophen	100	U	ug/Kg
			Amphetamine	50	U	ug/Kg
			Azithromycin	NR		ug/Kg
			Caffeine	50	U	ug/Kg
			Carbamazepine	50	U	ug/Kg
			Cotinine	50	U	ug/Kg
			DEET	50	U	ug/Kg
			Diphenhydramine	50	U	ug/Kg
			Ibuprofen	50	U	ug/Kg
			Methamphetamine	50	U	ug/Kg
			Naproxen	50	U	ug/Kg
			Paraxanthine	50	U	ug/Kg
			Thiabendazole	50	U	ug/Kg
			Triclosan	50	U	ug/Kg
SO-04	10154234		Ammonium-N	7.3		mg/Kg
			Nitrate-N/Nitrite	247		mg/Kg
			Total Nitrogen/Solid	2110		mg/Kg
		<i>Pesticides</i>	2,3,4,5-Tetrachlorophenol	22	U	ug/Kg
			2,3,4,6-Tetrachlorophenol	22	U	ug/Kg
			2,4,5-T	22	U	ug/Kg

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			2,4,5-Trichlorophenol	22	U	ug/Kg
			2,4,6-Trichlorophenol	22	UJ	ug/Kg
			2,4-D	22	U	ug/Kg
			2,4-DB	22	U	ug/Kg
			3,5-Dichlorobenzoic acid	22	U	ug/Kg
			4-Nitrophenol	1800	J	ug/Kg
			Acifluorfen	22	UJ	ug/Kg
			Alachlor	19	U	ug/Kg
			Atrazine	19	U	ug/Kg
			Azinphos-methyl	19	UJ	ug/Kg
			Bentazon	22	U	ug/Kg
			Benzonitrile, 2,6-dichloro-	19	U	ug/Kg
			Bromoxynil	22	U	ug/Kg
			Chloramben	22	UJ	ug/Kg
			Chlorpyrifos, Ethyl	1.7	J	ug/Kg
			Clopyralid	22	U	ug/Kg
			DACTHAL-DCPA	22	U	ug/Kg
			Diazinon	19	U	ug/Kg
			Dicamba	22	U	ug/Kg
			Dichlorprop	22	U	ug/Kg
			Diclofop, Methyl	22	U	ug/Kg
			Dinoseb	22	UJ	ug/Kg
			Diuron	2.1	J	ug/Kg
			Endosulfan I	19	U	ug/Kg
			Endosulfan II	19	U	ug/Kg
			Endosulfan Sulfate	1.1	J	ug/Kg
			Fenhexamid	19	UJ	ug/Kg
			Fenpropathrin	19	U	ug/Kg
			Imidan	19	UJ	ug/Kg
			Ioxynil	22	U	ug/Kg
			Kresoxim-methyl	19	U	ug/Kg
			MCPA	22	U	ug/Kg
			MCPP	22	U	ug/Kg
			Metribuzin	19	UJ	ug/Kg
			Myclobutanil	19	U	ug/Kg
			Oxyfluorfen	19	U	ug/Kg
			Pendimethalin	5.7	J	ug/Kg
			Pentachlorophenol	4.2	J	ug/Kg
			Picloram	22	U	ug/Kg
			Propargite	19	U	ug/Kg
			Silvex	22	U	ug/Kg
			Simazine	19	U	ug/Kg
			SURFLAN	37	UJ	ug/Kg
			Terbacil	19	U	ug/Kg
			Trichlorpyr	22	U	ug/Kg
			Triflumizole	19	U	ug/Kg
			Trifluralin	19	U	ug/Kg
		<i>Steroids / Hormones</i>	11-Keto Testosterone	0.1	U	ug/Kg
			17a-Hydroxyprogesterone	0.1	U	ug/Kg
			17alpha-trenbolone	0.1	U	ug/Kg
			17beta-estradiol	0.1	U	ug/Kg
			17beta-trenbolone	0.1	U	ug/Kg
			4-Androstenedione	0.1	U	ug/Kg
			a-Estradiol	0.1	U	ug/Kg
			Androstenedione	0.1	U	ug/Kg
			Androsterone	0.1	U	ug/Kg
			a-Zearalanol	0.1	U	ug/Kg

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			a-Zearalenol	0.1	U	ug/Kg
			b-Zearalenol	0.1	U	ug/Kg
			b-Zearalenol	0.1	U	ug/Kg
			Epitestosterone	0.1	U	ug/Kg
			Estriol	0.1	U	ug/Kg
			Estrone	0.1	U	ug/Kg
			Ethynyl Estradiol	0.1	U	ug/Kg
			Melengesterol Acetate	0.1	U	ug/Kg
			Progesterone	0.25		ug/Kg
			Testosterone	0.1	U	ug/Kg
		<i>Veterinary Pharmaceuticals</i>	Chlortetracycline(total)	0.6		ug/Kg
			Erythromycin	0.5	U	ug/Kg
			Lincomycin	0.5	U	ug/Kg
			Monensin	5.1		ug/Kg
			Oxytetracycline	3.2		ug/Kg
			Ractopamine	0.5	U	ug/Kg
			Sulfachloropyridazine	0.5	U	ug/Kg
			Sulfadimethoxine	0.5	U	ug/Kg
			Sulfamerazine	0.5	U	ug/Kg
			Sulfamethazine	0.9		ug/Kg
			Sulfamethazole	0.5	U	ug/Kg
			Sulfamethoxazole	0.5	U	ug/Kg
			Sulfathiazole	0.5	U	ug/Kg
			Tetracyline	27.4		ug/Kg
			Tiamulin	0.5	U	ug/Kg
			Tylosin	2.1		ug/Kg
			Virginiamycin	0.5	U	ug/Kg
		<i>Wastewater Pharmaceuticals</i>	Acetaminophen	100	U	ug/Kg
			Amphetamine	50	U	ug/Kg
			Azithromycin	NR		ug/Kg
			Caffeine	50	U	ug/Kg
			Carbamazepine	50	U	ug/Kg
			Cotinine	50	U	ug/Kg
			DEET	50	U	ug/Kg
			Diphenhydramine	50	U	ug/Kg
			Ibuprofen	50	U	ug/Kg
			Methamphetamine	50	U	ug/Kg
			Naproxen	50	U	ug/Kg
			Paraxanthine	50	U	ug/Kg
			Thiabendazole	50	U	ug/Kg
			Triclosan	50	U	ug/Kg
LG-04	10154254		Ammonia (NH3+NH4) as N	920	J	mg/L
			Nitrate+Nitrite as N	1	UJ	mg/L
			Total Kjeldahl Nitrogen	1600	J	mg/L
		<i>Bacteria</i>	Escherichia coli	>16000000	J	per 100ml
			Fecal Coliform	>16000000		per 100ml
			BAC32		Present	
			<i>Bacteroides</i> PCR (ruminant)	CF 128	Present	
			<i>Bacteroides</i> PCR (ruminant)	CF 193	ND	
			<i>Bacteroides</i> PCR (human)	HF 134	Absent	
			<i>Bacteroides</i> PCR (human)	HF 183	Absent	
		<i>General Chemistry</i>	Alkalinity as CaCO3	6110		mg/L
			Bromide	10	U	mg/L

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			Chloride	684		mg/L
			Fluoride	2	U	mg/L
			Phosphorus, total	354		mg/L
			Sulfate	286		mg/L
		<i>Metals</i>	Arsenic	170	U	ug/L
			Barium	2480		ug/L
			Cadmium	12	U	ug/L
			Calcium	1010000		ug/L
			Chromium	203		ug/L
			Copper	3110		ug/L
			Iron	205000		ug/L
			Lead	97	U	ug/L
			Magnesium	514000		ug/L
			Manganese	14800		ug/L
			Mercury	0.387	J	ug/L
			Potassium	2160000		ug/L
			Selenium	190	U	ug/L
			Silver	39	U	ug/L
			Sodium	517000		ug/L
			Zinc	11000		ug/L
		<i>Wastewater Organics</i>	1,4-dichlorobenzene	2	UJ	ug/L
			1-methylnaphthalene	2	R	ug/L
			2,2',4,4'-tetrabromodiphenyl ether	2	UJ	ug/L
			2,6-dimethylnaphthalene	2	R	ug/L
			2-methylnaphthalene	2	R	ug/L
			3,4-dichlorophenyl isocyanate	2	UJ	ug/L
			3-beta-coprostanol	23.1	J	ug/L
			3-methyl-1h-indole (skatol)	24.2	J	ug/L
			3-tert-butyl-4-hydroxyanisole (bha)	2	UJ	ug/L
			4-cumylphenol	2	R	ug/L
			4-n-octylphenol	2	R	ug/L
			4-nonylphenol monoethoxylate - total (np1eo)	2.32	J	ug/L
			4-octylphenol diethoxylate (op2eo)	2	R	ug/L
			4-octylphenol monoethoxylate (op1eo)	0.697	J	ug/L
			4-tert-octylphenol	2	R	ug/L
			5-methyl-1h-benzotriazole	2	UJ	ug/L
			acetophenone	2	R	ug/L
			acetyl-hexamethyl-tetrahydro-naphthalene (ahtn)	2	UJ	ug/L
			anthracene	2	R	ug/L
			anthraquinone	2	UJ	ug/L
			atrazine	2	UJ	ug/L
			benz[a]pyrene	2	R	ug/L
			benzophenone	2	R	ug/L
			beta-sitosterol	43.5	J	ug/L
			beta-stigmastanol	34.1	J	ug/L
			bis-(2-ethylhexyl) phthalate (dehp)	2	UJ	ug/L
			bisphenol a	2	R	ug/L
			bromacil	2	UJ	ug/L
			bromoform	2	UJ	ug/L
			caffeine	2	R	ug/L
			camphor	2	UJ	ug/L
			carbaryl	2	UJ	ug/L
			carbazole	2	UJ	ug/L
			chlorpyrifos	2	UJ	ug/L
			cholesterol	59.6	J	ug/L
			cotinine	0.8	UJ	ug/L

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			diazinon	2	UJ	ug/L
			dichlorvos	2	UJ	ug/L
			diethoxynonylphenols- total (np2eo)	2.16	J	ug/L
			diethyl phthalate	2	UJ	ug/L
			d-limonene	2	UJ	ug/L
			fluoranthene	2	R	ug/L
			hexahydrohexamethyl cyclopentabenzopyran (hhcb)	2	UJ	ug/L
			indole	25.6	J	ug/L
			isoborneol	2	UJ	ug/L
			isophorone	2	UJ	ug/L
			isopropylbenzene (cumene)	2	UJ	ug/L
			isoquinoline	2	UJ	ug/L
			menthol	2	UJ	ug/L
			metalaxyl	2	UJ	ug/L
			methyl salicylate	2	UJ	ug/L
			metolachlor	2	UJ	ug/L
			n,n-diethyl-meta-toluamide (deet)	2	UJ	ug/L
			naphthalene	2	R	ug/L
			para-nonylphenol total	2	UJ	ug/L
			p-cresol	1110	J	ug/L
			pentachlorophenol	2	R	ug/L
			phenanthrene	2	R	ug/L
			phenol	147	J	ug/L
			prometon	2	UJ	ug/L
			pyrene	2	R	ug/L
			tetrachloroethylene	2	UJ	ug/L
			tri(2-butoxyethyl) phosphate	2	UJ	ug/L
			tri(2-chloroethyl) phosphate	2	UJ	ug/L
			tri(dichloroisopropyl) phosphate	2	UJ	ug/L
			tributyl phosphate	2	UJ	ug/L
			triclosan	2	UJ	ug/L
			triethyl citrate (ethyl citrate)	2	UJ	ug/L
			triphenyl phosphate	2	UJ	ug/L

Pesticides Due to matrix interference the laboratory could not provide quantitative results for the pesticide analysis of the lagoon sludge samples.

<i>Hormones</i>	17-a-estradiol	3430		ng/L
	17-a-ethynyl-estradiol	20	U	ng/L
	17-b-estradiol	555		ng/L
	Estriol	8.8	U	ng/L
	Estrone	1100		ng/L

<i>Steroids / Hormones</i>	11-Keto Testosterone	0.002	U	ug/L
	17a-Hydroxyprogesterone	0.002	U	ug/L
	17alpha-trenbolone	0.002	U	ug/L
	17beta-estradiol	0.002	U	ug/L
	17beta-trenbolone	0.002	U	ug/L
	4-Androstenedione	0.002	U	ug/L
	a-Estradiol	0.002	U	ug/L
	Androstanedienedione	0.002	U	ug/L
	Androsterone	0.002	U	ug/L
	a-Zearalanol	13.9		ug/L
	a-Zearalenol	0.002	U	ug/L
	b-Zearalanol	0.002	U	ug/L
	b-Zearalenol	0.002	U	ug/L
	Epitestosterone	0.181		ug/L

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			Estriol	0.002	U	ug/L
			Estrone	0.002	U	ug/L
			Ethynyl Estradiol	0.002	U	ug/L
			Melengesterol Acetate	0.002	U	ug/L
			Progesterone	0.002	U	ug/L
			Testosterone	0.002	U	ug/L
		<i>Veterinary Pharmaceuticals</i>	Chlortetracycline(total)	0.02	UJ	ug/L
			Erythromycin	0.02	UJ	ug/L
			Lincomycin	0.02	UJ	ug/L
			Monensin	0.02	UJ	ug/L
			Oxytetracycline	0.02	UJ	ug/L
			Ractopamine	0.02	UJ	ug/L
			Sulfachloropyridazine	0.02	UJ	ug/L
			Sulfadimethoxine	0.02	UJ	ug/L
			Sulfamerazine	0.02	UJ	ug/L
			Sulfamethazine	0.02	UJ	ug/L
			Sulfamethazole	0.02	UJ	ug/L
			Sulfamethoxazole	0.02	UJ	ug/L
			Sulfathiazole	0.02	UJ	ug/L
			Tetracycline	0.02	UJ	ug/L
			Tiamulin	0.02	UJ	ug/L
			Tylosin	0.02	UJ	ug/L
			Virginiamycin	0.02	UJ	ug/L
		<i>Wastewater Pharmaceuticals</i>	Acetaminophen	0.2	U	ug/L
			Amphetamine	0.2	R	ug/L
			Azithromycin	0.2	U	ug/L
			Caffeine	0.2	U	ug/L
			Carbamazepine	0.2	UJ	ug/L
			Cotinine	0.2	U	ug/L
			DEET	0.36	J	ug/L
			Diphenhydramine	0.2	U	ug/L
			Ibuprofen	0.2	U	ug/L
			Methamphetamine	0.2	R	ug/L
			Naproxen	0.2	U	ug/L
			Paraxanthine	0.2	U	ug/L
			Thiabendazole	0.2	UJ	ug/L
			Triclosan	0.2	U	ug/L
		<i>Isotopes</i>	Nitrate	NM		mg/L
			δ15N-NO3	NM		‰
			Ammonia	899		mg/L
			δ15N-NH4	6.69		‰
			δ18O-NO3	NM		‰ SMOW
LG-05	10154255		Ammonia (NH3+NH4) as N	1200	J	mg/L
			Nitrate+Nitrite as N	1	UJ	mg/L
			Total Kjeldahl Nitrogen	1600	J	mg/L
		<i>Bacteria</i>	Escherichia coli	2000	J	per100ml
			Fecal Coliform	2000		per100ml
			BAC32		Present	
			<i>Bacteroides</i> PCR (ruminant)	CF 128	Present	
			<i>Bacteroides</i> PCR (ruminant)	CF 193	ND	
			<i>Bacteroides</i> PCR (human)	HF 134	Absent	
			<i>Bacteroides</i> PCR (human)	HF 183	Absent	

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		<i>General Chemistry</i>	Alkalinity as CaCO3	8920		mg/L
			Bromide	10	U	mg/L
			Chloride	1140		mg/L
			Fluoride	2	U	mg/L
			Phosphorus, total	103		mg/L
			Sulfate	15	U	mg/L
		<i>Metals</i>	Arsenic	180	U	ug/L
			Barium	722		ug/L
			Cadmium	12	U	ug/L
			Calcium	351000		ug/L
			Chromium	44		ug/L
			Copper	1030		ug/L
			Iron	15500		ug/L
			Lead	99	U	ug/L
			Magnesium	281000		ug/L
			Manganese	4420		ug/L
			Mercury	0.25	UJ	ug/L
			Potassium	2590000		ug/L
			Selenium	200	U	ug/L
			Silver	40	U	ug/L
			Sodium	751000		ug/L
			Zinc	3720		ug/L
		<i>Wastewater Organics</i>	1,4-dichlorobenzene	2	UJ	ug/L
			1-methylnaphthalene	2	R	ug/L
			2,2',4,4'-tetrabromodiphenyl ether	2	UJ	ug/L
			2,6-dimethylnaphthalene	2	R	ug/L
			2-methylnaphthalene	2	R	ug/L
			3,4-dichlorophenyl isocyanate	1.6	UJ	ug/L
			3-beta-coprostanol	4.22	J	ug/L
			3-methyl-1h-indole (skatol)	3.56	J	ug/L
			3-tert-butyl-4-hydroxyanisole (bha)	2	UJ	ug/L
			4-cumylphenol	2	R	ug/L
			4-n-octylphenol	2	R	ug/L
			4-nonylphenol monoethoxylate - total (np1eo)	1.48	J	ug/L
			4-octylphenol diethoxylate (op2eo)	2	R	ug/L
			4-octylphenol monoethoxylate (op1eo)	2	R	ug/L
			4-tert-octylphenol	2	R	ug/L
			5-methyl-1h-benzotriazole	2	UJ	ug/L
			acetophenone	2	R	ug/L
			acetyl-hexamethyl-tetrahydro- naphthalene (ahtn)	2	UJ	ug/L
			anthracene	2	R	ug/L
			anthraquinone	2	UJ	ug/L
			atrazine	2	UJ	ug/L
			benz[a]pyrene	2	R	ug/L
			benzophenone	2	R	ug/L
			beta-sitosterol	7.07	J	ug/L
			beta-stigmastanol	4.38	J	ug/L
			bis-(2-ethylhexyl) phthalate (dehp)	2	UJ	ug/L
			bisphenol a	2	R	ug/L
			bromacil	2	UJ	ug/L
			bromoform	2	UJ	ug/L
			caffeine	1.02	J	ug/L
			camphor	2	UJ	ug/L
			carbaryl	2	UJ	ug/L
			carbazole	2	UJ	ug/L

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Station Location	Sample Number	Analysis Type	Analyte	Result	Qualifier	Units
			chlorpyrifos	2	UJ	ug/L
			cholesterol	12.3	J	ug/L
			cotinine	2	UJ	ug/L
			diazinon	2	UJ	ug/L
			dichlorvos	2	UJ	ug/L
			diethoxynonylphenols- total (np2eo)	2	UJ	ug/L
			diethyl phthalate	2	UJ	ug/L
			d-limonene	2	UJ	ug/L
			fluoranthene	2	R	ug/L
			hexahydrohexamethyl cyclopentabenzopyran (hhcb)	2	UJ	ug/L
			indole	2	U	ug/L
			isoborneol	2	UJ	ug/L
			isophorone	2	UJ	ug/L
			isopropylbenzene (cumene)	2	UJ	ug/L
			isoquinoline	2	UJ	ug/L
			menthol	2	UJ	ug/L
			metalaxyl	2	UJ	ug/L
			methyl salicylate	2	UJ	ug/L
			metolachlor	2	UJ	ug/L
			n,n-diethyl-meta-toluamide (deet)	2	UJ	ug/L
			naphthalene	2	R	ug/L
			para-nonylphenol total	3.17	J	ug/L
			p-cresol	14.7	J	ug/L
			pentachlorophenol	2	R	ug/L
			phenanthrene	2	R	ug/L
			phenol	3.85	J	ug/L
			prometon	2	UJ	ug/L
			pyrene	2	R	ug/L
			tetrachloroethylene	2	UJ	ug/L
			tri(2-butoxyethyl) phosphate	2	UJ	ug/L
			tri(2-chloroethyl) phosphate	2	UJ	ug/L
			tri(dichloroisopropyl) phosphate	2	UJ	ug/L
			tributyl phosphate	2	UJ	ug/L
			triclosan	2	U	ug/L
			triethyl citrate (ethyl citrate)	2	UJ	ug/L
			triphenyl phosphate	2	UJ	ug/L
			<i>Pesticides</i>			
			Due to matrix interference the laboratory could not provide quantitative results for the pesticide analysis of the lagoon sludge samples.			
			<i>Hormones</i>			
			17-a-estradiol	1100		ng/L
			17-a-ethynyl-estradiol	20	U	ng/L
			17-b-estradiol	44		ng/L
			Estriol	8.8	U	ng/L
			Estrone	3180		ng/L
			<i>Steroids / Hormones</i>			
			11-Keto Testosterone	0.002	U	ug/L
			17a-Hydroxyprogesterone	0.131		ug/L
			17alpha-trenbolone	0.002	U	ug/L
			17beta-estradiol	0.002	U	ug/L
			17beta-trenbolone	0.002	U	ug/L
			4-Androstenedione	0.5		ug/L
			a-Estradiol	0.002	U	ug/L
			Androstanedienedione	3.504		ug/L
			Androsterone	0.002	U	ug/L
			a-Zearalanol	11.9		ug/L
			a-Zearalenol	0.002	U	ug/L

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Station Location	Sample Number	Analysis Type	Analyte	Result	Qualifier	Units
			b-Zearalanol	0.002	U	ug/L
			b-Zearalenol	0.002	U	ug/L
			Epitestosterone	0.002	U	ug/L
			Estriol	0.002	U	ug/L
			Estrone	1.945		ug/L
			Ethynyl Estradiol	0.002	U	ug/L
			Melengesterol Acetate	0.002	U	ug/L
			Progesterone	0.912		ug/L
			Testosterone	0.193		ug/L
		<i>Veterinary Pharmaceuticals</i>	Chlortetracycline(total)	0.075	J	ug/L
			Erythromycin	0.916	J	ug/L
			Lincomycin	3.55	J	ug/L
			Monensin	430.2	J	ug/L
			Oxytetracycline	1.24	J	ug/L
			Ractopamine	0.04	J	ug/L
			Sulfachloropyridazine	1.21	J	ug/L
			Sulfadimethoxine	0.322	J	ug/L
			Sulfamerazine	0.068	J	ug/L
			Sulfamethazine	1.5	J	ug/L
			Sulfamethazole	0.02	R	ug/L
			Sulfamethoxazole	0.02	R	ug/L
			Sulfathiazole	0.137	J	ug/L
			Tetracycline	4.48	J	ug/L
			Tiamulin	0.02	R	ug/L
			Tylosin	1.7	J	ug/L
			Virginiamycin	0.334	J	ug/L
		<i>Wastewater Pharmaceuticals</i>	Acetaminophen	0.2	U	ug/L
			Amphetamine	0.2	R	ug/L
			Azithromycin	0.2	U	ug/L
			Caffeine	0.2	U	ug/L
			Carbamazepine	0.2	UJ	ug/L
			Cotinine	0.2	U	ug/L
			DEET	0.2	U	ug/L
			Diphenhydramine	0.2	U	ug/L
			Ibuprofen	0.2	U	ug/L
			Methamphetamine	0.2	R	ug/L
			Naproxen	0.2	U	ug/L
			Paraxanthine	0.2	U	ug/L
			Thiabendazole	0.2	UJ	ug/L
			Triclosan	0.2	U	ug/L
		<i>Isotopes</i>	Nitrate	NM		mg/L
			δ15N-NO3	NM		‰
			Ammonia	1151		mg/L
			δ15N-NH4	10.63		‰
			δ18O-NO3	NM		‰ SMOW
LG-06	10154256		Ammonia (NH3+NH4) as N	1200	J	mg/L
			Nitrate+Nitrite as N	1	UJ	mg/L
			Total Kjeldahl Nitrogen	1800	J	mg/L
		<i>Bacteria</i>	Escherichia coli	1800	J	per100ml
			Fecal Coliform	1800		per100ml
			BAC32		Present	
			Bacteroides PCR (ruminant)	CF 128	Present	
			Bacteroides PCR (ruminant)	CF 193	ND	

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Station Location	Sample Number	Analysis Type	Analyte	Result	Qualifier	Units
			<i>Bacteroides</i> PCR (human)	HF 134	Absent	
			<i>Bacteroides</i> PCR (human)	HF 183	Absent	
		<i>General Chemistry</i>	Alkalinity as CaCO3	8700		mg/L
			Bromide	10	U	mg/L
			Chloride	1140		mg/L
			Fluoride	2	U	mg/L
			Phosphorus, total	111		mg/L
			Sulfate	15	U	mg/L
		<i>Metals</i>	Arsenic	160	U	ug/L
			Barium	683		ug/L
			Cadmium	10	U	ug/L
			Calcium	323000		ug/L
			Chromium	46		ug/L
			Copper	989		ug/L
			Iron	13900		ug/L
			Lead	86	U	ug/L
			Magnesium	274000		ug/L
			Manganese	4070		ug/L
			Mercury	0.25	UJ	ug/L
			Potassium	2600000		ug/L
			Selenium	170	U	ug/L
			Silver	34	U	ug/L
			Sodium	753000		ug/L
			Zinc	3470		ug/L
		<i>Wastewater Organics</i>	1,4-dichlorobenzene	2	UJ	ug/L
			1-methylnaphthalene	2	R	ug/L
			2,2',4,4'-tetrabromodiphenyl ether	2	UJ	ug/L
			2,6-dimethylnaphthalene	2	R	ug/L
			2-methylnaphthalene	2	R	ug/L
			3,4-dichlorophenyl isocyanate	2	UJ	ug/L
			3-beta-coprostanol	16.7	J	ug/L
			3-methyl-1h-indole (skatol)	22.5	J	ug/L
			3-tert-butyl-4-hydroxyanisole (bha)	2	UJ	ug/L
			4-cumylphenol	2	R	ug/L
			4-n-octylphenol	2	R	ug/L
			4-nonylphenol monoethoxylate - total (np1eo)	10.1	J	ug/L
			4-octylphenol diethoxylate (op2eo)	2	R	ug/L
			4-octylphenol monoethoxylate (op1eo)	2	R	ug/L
			4-tert-octylphenol	2	R	ug/L
			5-methyl-1h-benzotriazole	2	UJ	ug/L
			acetophenone	2	R	ug/L
			acetyl-hexamethyl-tetrahydro-naphthalene (ahtn)	2	UJ	ug/L
			anthracene	2	R	ug/L
			anthraquinone	2	UJ	ug/L
			atrazine	2	UJ	ug/L
			benz[a]pyrene	2	R	ug/L
			benzophenone	2	R	ug/L
			beta-sitosterol	15.2	J	ug/L
			beta-stigmastanol	15.6	J	ug/L
			bis-(2-ethylhexyl) phthalate (dehp)	2	UJ	ug/L
			bisphenol a	2	R	ug/L
			bromacil	0.8	UJ	ug/L
			bromoform	2	UJ	ug/L
			caffeine	2	UJ	ug/L
			camphor	2	UJ	ug/L

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Station Location	Sample Number	Analysis Type	Analyte	Result	Qualifier	Units
			carbaryl	2	UJ	ug/L
			carbazole	2	UJ	ug/L
			chlorpyrifos	2	UJ	ug/L
			cholesterol	25.9	J	ug/L
			cotinine	2	UJ	ug/L
			diazinon	2	UJ	ug/L
			dichlorvos	2	UJ	ug/L
			diethoxynonylphenols- total (np2eo)	2	UJ	ug/L
			diethyl phthalate	2	UJ	ug/L
			d-limonene	2	UJ	ug/L
			fluoranthene	2	R	ug/L
			hexahydrohexamethyl cyclopentabenzopyran (hhcb)	2	UJ	ug/L
			indole	1.17	J	ug/L
			isoborneol	2	UJ	ug/L
			isophorone	2	UJ	ug/L
			isopropylbenzene (cumene)	2	UJ	ug/L
			isoquinoline	2	UJ	ug/L
			menthol	2	UJ	ug/L
			metalaxyl	2	UJ	ug/L
			methyl salicylate	2	UJ	ug/L
			metolachlor	2	UJ	ug/L
			n,n-diethyl-meta-toluamide (deet)	2	UJ	ug/L
			naphthalene	2	R	ug/L
			para-nonylphenol total	17.9	J	ug/L
			p-cresol	112	J	ug/L
			pentachlorophenol	2	R	ug/L
			phenanthrene	2	R	ug/L
			phenol	31.3	J	ug/L
			prometon	2	UJ	ug/L
			pyrene	2	R	ug/L
			tetrachloroethylene	2	UJ	ug/L
			tri(2-butoxyethyl) phosphate	2	UJ	ug/L
			tri(2-chloroethyl) phosphate	2	UJ	ug/L
			tri(dichloroisopropyl) phosphate	2	UJ	ug/L
			tributyl phosphate	2	UJ	ug/L
			triclosan	2	UJ	ug/L
			triethyl citrate (ethyl citrate)	2	UJ	ug/L
			triphenyl phosphate	2	UJ	ug/L

Pesticides Due to matrix interference the laboratory could not provide quantitative results for the pesticide analysis of the lagoon sludge samples.

<i>Hormones</i>	17-a-estradiol	1190		ng/L
	17-a-ethynyl-estradiol	20	U	ng/L
	17-b-estradiol	38.5		ng/L
	Estriol	8.8	U	ng/L
	Estrone	3300		ng/L

<i>Steroids / Hormones</i>	11-Keto Testosterone	0.857		ug/L
	17a-Hydroxyprogesterone	0.038		ug/L
	17alpha-trenbolone	0.002	U	ug/L
	17beta-estradiol	0.002	U	ug/L
	17beta-trenbolone	0.002	U	ug/L
	4-Androstenedione	0.101		ug/L
	a-Estradiol	0.002	U	ug/L
	Androstenedione	0.002	U	ug/L
Androsterone	0.002	U	ug/L	

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Station Location	Sample Number	Analysis Type	Analyte	Result	Qualifier	Units
			a-Zearalanol	12.6		ug/L
			a-Zearalenol	0.002	U	ug/L
			b-Zearalanol	0.002	U	ug/L
			b-Zearalenol	0.002	U	ug/L
			Epitestosterone	0.002	U	ug/L
			Estriol	0.002	U	ug/L
			Estrone	1.666		ug/L
			Ethynyl Estradiol	0.002	U	ug/L
			Melengesterol Acetate	0.002	U	ug/L
			Progesterone	0.185		ug/L
			Testosterone	0.195		ug/L
		<i>Veterinary Pharmaceuticals</i>	Chlortetracycline(total)	0.02	UJ	ug/L
			Erythromycin	0.02	UJ	ug/L
			Lincomycin	8.5	J	ug/L
			Monensin	463.8	J	ug/L
			Oxytetracycline	4.49	J	ug/L
			Ractopamine	0.02	R	ug/L
			Sulfachloropyridazine	0.157	J	ug/L
			Sulfadimethoxine	0.02	R	ug/L
			Sulfamerazine	0.02	R	ug/L
			Sulfamethazine	0.17	J	ug/L
			Sulfamethazole	0.02	R	ug/L
			Sulfamethoxazole	0.02	R	ug/L
			Sulfathiazole	0.829	J	ug/L
			Tetracycline	5.41	J	ug/L
			Tiamulin	0.02	R	ug/L
			Tylosin	10.22	J	ug/L
			Virginiamycin	0.02	R	ug/L
		<i>Wastewater Pharmaceuticals</i>	Acetaminophen	0.2	U	ug/L
			Amphetamine	0.2	R	ug/L
			Azithromycin	0.2	R	ug/L
			Caffeine	0.2	U	ug/L
			Carbamazepine	0.2	UJ	ug/L
			Cotinine	0.2	U	ug/L
			DEET	0.2	U	ug/L
			Diphenhydramine	0.2	U	ug/L
			Ibuprofen	0.2	U	ug/L
			Methamphetamine	0.2	R	ug/L
			Naproxen	0.2	U	ug/L
			Paraxanthine	0.2	U	ug/L
			Thiabendazole	0.2	UJ	ug/L
			Triclosan	0.2	U	ug/L
		<i>Isotopes</i>	Nitrate	NM		mg/L
			δ15N-NO3	NM		‰
			Ammonia	1293		mg/L
			δ15N-NH4	10.25		‰
			δ18O-NO3	NM		‰ SMOW
WW-07	10154207		Ammonia (NH3+NH4) as N	0.05	U	mg/L
			Nitrate - Field Test	2		mg/l
			Nitrate+Nitrite as N	1.19		mg/L
			Nitrate-N	1.02		mg/l
			Total Kjeldahl Nitrogen	0.51	U	mg/L
		<i>Bacteria</i>	Escherichia coli	<1		per 100ml

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Station Location	Sample Number	Analysis Type	Analyte	Result	Qualifier	Units
			Fecal Coliform	< 1		per 100ml
			Total Coliform	< 1		per 100ml
		<i>General Chemistry</i>	Alkalinity as CaCO3	129		mg/L
			Bromide	0.2	U	mg/L
			Chloride	8.04		mg/L
			Fluoride	0.298		mg/L
			Phosphorus, total	0.0299		mg/L
			Sulfate	27.8		mg/L
		<i>Metals</i>	Arsenic	45	U	ug/L
			Barium	10		ug/L
			Cadmium	3	U	ug/L
			Calcium	28300		ug/L
			Chromium	10	U	ug/L
			Copper	5	U	ug/L
			Iron	20	U	ug/L
			Lead	25	U	ug/L
			Magnesium	12300		ug/L
			Manganese	3.4		ug/L
			Mercury	0.05	U	ug/L
			Potassium	6830		ug/L
			Selenium	50	U	ug/L
			Silver	10	U	ug/L
			Sodium	15100		ug/L
			Zinc	5	U	ug/L
		<i>Perchlorate</i>	Perchlorate	231		ng/l
		<i>Wastewater Organics</i>	1,4-dichlorobenzene	0.2	U	ug/L
			1-methylnaphthalene	0.2	U	ug/L
			2,2',4,4'-tetrabromodiphenyl ether	0.3	U	ug/L
			2,6-dimethylnaphthalene	0.2	U	ug/L
			2-methylnaphthalene	0.2	U	ug/L
			3,4-dichlorophenyl isocyanate	1.6	U	ug/L
			3-beta-coprostanol	1.6	U	ug/L
			3-methyl-1h-indole (skatol)	0.2	U	ug/L
			3-tert-butyl-4-hydroxyanisole (bha)	0.2	UJ	ug/L
			4-cumylphenol	0.2	U	ug/L
			4-n-octylphenol	0.2	U	ug/L
			4-nonylphenol monoethoxylate - total (np1eo)	1.6	U	ug/L
			4-octylphenol diethoxylate (op2eo)	0.5	UJ	ug/L
			4-octylphenol monoethoxylate (op1eo)	1	U	ug/L
			4-tert-octylphenol	0.4	U	ug/L
			5-methyl-1h-benzotriazole	0.2	UJ	ug/L
			acetophenone	0.4	U	ug/L
			acetyl-hexamethyl-tetrahydro-naphthalene (ahntn)	0.2	U	ug/L
			anthracene	0.2	U	ug/L
			anthraquinone	0.2	U	ug/L
			atrazine	0.2	U	ug/L
			benz[a]pyrene	0.2	U	ug/L
			benzophenone	0.2	U	ug/L
			beta-sitosterol	0.2	U	ug/L
			beta-stigmastanol	0.2	U	ug/L
			bis-(2-ethylhexyl) phthalate (dehp)	0.2	U	ug/L
			bisphenol a	0.2	UJ	ug/L
			bromacil	0.2	U	ug/L
			bromoform	0.2	U	ug/L

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Station Location	Sample Number	Analysis Type	Analyte	Result	Qualifier	Units
			caffeine	0.2	U	ug/L
			camphor	0.2	U	ug/L
			carbaryl	0.2	U	ug/L
			carbazole	0.2	U	ug/L
			chlorpyrifos	0.2	U	ug/L
			cholesterol	0.2	U	ug/L
			cotinine	0.2	U	ug/L
			diazinon	0.2	U	ug/L
			dichlorvos	0.2	U	ug/L
			diethoxynonylphenols- total (np2eo)	0.2	U	ug/L
			diethyl phthalate	0.2	U	ug/L
			d-limonene	0.2	U	ug/L
			fluoranthene	0.2	U	ug/L
			hexahydrohexamethyl cyclopentabenzopyran (hhcb)	0.2	U	ug/L
			indole	0.2	U	ug/L
			isoborneol	0.2	U	ug/L
			isophorone	0.2	U	ug/L
			isopropylbenzene (cumene)	0.2	U	ug/L
			isoquinoline	0.2	U	ug/L
			menthol	0.2	U	ug/L
			metalaxyl	0.2	U	ug/L
			methyl salicylate	0.2	U	ug/L
			metolachlor	0.2	U	ug/L
			n,n-diethyl-meta-toluamide (deet)	0.2	U	ug/L
			naphthalene	0.242		ug/L
			para-nonylphenol total	0.2	U	ug/L
			p-cresol	0.2	U	ug/L
			pentachlorophenol	1.6	U	ug/L
			phenanthrene	0.2	U	ug/L
			phenol	0.2	U	ug/L
			prometon	0.2	U	ug/L
			pyrene	0.2	U	ug/L
			tetrachloroethylene	0.175	J	ug/L
			tri(2-butoxyethyl) phosphate	0.2	U	ug/L
			tri(2-chloroethyl) phosphate	0.2	U	ug/L
			tri(dichloroisopropyl) phosphate	0.2	U	ug/L
			tributyl phosphate	0.2	U	ug/L
			triclosan	0.2	U	ug/L
			triethyl citrate (ethyl citrate)	0.2	U	ug/L
			triphenyl phosphate	0.2	U	ug/L
		<i>Pesticides</i>	2,3,4,5-Tetrachlorophenol	0.19	U	ug/L
			2,3,4,6-Tetrachlorophenol	0.1	U	ug/L
			2,4,5-T	0.48	U	ug/L
			2,4,5-Trichlorophenol	0.19	U	ug/L
			2,4,6-Trichlorophenol	0.48	UJ	ug/L
			2,4-D	0.48	UJ	ug/L
			2,4-DB	0.1	U	ug/L
			3,5-Dichlorobenzoic acid	0.1	U	ug/L
			4-Nitrophenol	0.48	UJ	ug/L
			Acifluorfen	0.48	U	ug/L
			Alachlor	0.1	UJ	ug/L
			Atrazine	0.1	UJ	ug/L
			Azinphos-methyl	0.1	UJ	ug/L
			Bentazon	0.012	NJ	ug/L
			Benzonitrile, 2,6-dichloro-	0.1	UJ	ug/L
			Bromoxynil	0.1	U	ug/L
			Chloramben	0.19	UJ	ug/L

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Station Location	Sample Number	Analysis Type	Analyte	Result	Qualifier	Units
			Chlorpyrifos, Ethyl	0.1	UJ	ug/L
			Clopyralid	0.96	UJ	ug/L
			DACTHAL-DCPA	0.48	UJ	ug/L
			Diazinon	0.1	UJ	ug/L
			Dicamba	0.1	UJ	ug/L
			Dichlorprop	0.48	U	ug/L
			Diclofop, Methyl	0.1	U	ug/L
			Dinoseb	0.48	U	ug/L
			Diuron	0.1	UJ	ug/L
			Endosulfan I	0.1	UJ	ug/L
			Endosulfan II	0.096	UJ	ug/L
			Endosulfan Sulfate	0.1	UJ	ug/L
			Fenhexamid	0.96	UJ	ug/L
			Fenpropathrin	0.1	UJ	ug/L
			Imidan	0.19	UJ	ug/L
			Ioxynil	0.1	U	ug/L
			Kresoxim-methyl	0.1	UJ	ug/L
			MCPA	0.19	U	ug/L
			MCPP	0.1	U	ug/L
			Metribuzin	0.1	UJ	ug/L
			Myclobutanil	0.1	UJ	ug/L
			Oxyfluorfen	0.1	UJ	ug/L
			Pendimethalin	0.1	UJ	ug/L
			Pentachlorophenol	0.1	U	ug/L
			Picloram	0.96	UJ	ug/L
			Propargite	0.1	UJ	ug/L
			Silvex	0.19	U	ug/L
			Simazine	0.1	U	ug/L
			SURFLAN	1.9	UJ	ug/L
			Terbacil	1.9	UJ	ug/L
			Trichlorpyr	0.1	U	ug/L
			Triflumizole	0.39	UJ	ug/L
			Trifluralin	0.1	UJ	ug/L
		<i>Hormones</i>	17-a-estradiol	0.21	U	ng/L
			17-a-ethynyl-estradiol	0.16	U	ng/L
			17-b-estradiol	0.14	U	ng/L
			Estriol	0.22	U	ng/L
			Estrone	0.21	U	ng/L
		<i>Steroids / Hormones</i>	11-Keto Testosterone	0.002	U	ug/L
			17a-Hydroxyprogesterone	0.002	U	ug/L
			17alpha-trenbolone	0.002	U	ug/L
			17beta-estradiol	0.002	U	ug/L
			17beta-trenbolone	0.002	U	ug/L
			4-Androstenedione	0.002	U	ug/L
			a-Estradiol	0.002	U	ug/L
			Androstanedienedione	0.002	UJ	ug/L
			Androsterone	0.002	UJ	ug/L
			a-Zearalanol	0.005	J	ug/L
			a-Zearalenol	0.002	UJ	ug/L
			b-Zearalanol	0.002	UJ	ug/L
			b-Zearalenol	0.002	U	ug/L
			Epitestosterone	0.002		ug/L
			Estriol	0.002	U	ug/L
			Estrone	0.002	UJ	ug/L
			Ethynyl Estradiol	0.002	U	ug/L
			Melengesterol Acetate	0.002	U	ug/L

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Station Location	Sample Number	Analysis Type	Analyte	Result	Qualifier	Units
			Progesterone	0.004	U	ug/L
			Testosterone	0.002	U	ug/L
		<i>Veterinary Pharmaceuticals</i>	Chlortetracycline(total)	0.02	U	ug/L
			Erythromycin	0.02	U	ug/L
			Lincomycin	0.04	U	ug/L
			Monensin	0.109		ug/L
			Oxytetracycline	0.02	U	ug/L
			Ractopamine	0.02	U	ug/L
			Sulfachloropyridazine	0.02	U	ug/L
			Sulfadimethoxine	0.02	U	ug/L
			Sulfamerazine	0.02	U	ug/L
			Sulfamethazine	0.02	U	ug/L
			Sulfamethazole	0.02	U	ug/L
			Sulfamethoxazole	0.02	U	ug/L
			Sulfathiazole	0.02	U	ug/L
			Tetracycline	0.041	J	ug/L
			Tiamulin	0.02	U	ug/L
			Tylosin	0.02	U	ug/L
			Virginiamycin	0.023	J	ug/L
		<i>Wastewater Pharmaceuticals</i>	Acetaminophen	0.2	UJ	ug/L
			Amphetamine	0.2	UJ	ug/L
			Azithromycin	0.2	U	ug/L
			Caffeine	0.2	U	ug/L
			Carbamazepine	0.2	UJ	ug/L
			Cotinine	0.2	U	ug/L
			DEET	0.2	U	ug/L
			Diphenhydramine	0.2	U	ug/L
			Ibuprofen	0.2	U	ug/L
			Methamphetamine	0.2	U	ug/L
			Naproxen	0.2	R	ug/L
			Paraxanthine	0.2	UJ	ug/L
			Thiabendazole	0.2	UJ	ug/L
			Triclosan	0.2	R	ug/L
		<i>Isotopes</i>	Nitrate	1.1		mg/L
			δ15N-NO3	-0.09		‰
			Ammonia	<0.1		mg/L
			δ15N-NH4	NM		‰
			δ18O-NO3	NM		‰ SMOW
		<i>Age Dating</i>	Piston Flow Model SF6 Recharge Age	32.8-36.3	J	years

Abbreviations

BAC32 - *Bacteroides*
 ND - Analysis not done
 NM - Not measured
 PCR - Polymerase Chain Reaction
 ‰ = parts per thousand difference from the atmospheric standard
 SMOW = standard mean of ocean water
 TNTC - Too numerous to count

Units

CFU/100 ml = colony forming unit per 100 milliliters
 MPN/100 ml = most probable number per 100 milliliters
 ng/L = nanograms per liter
 ug/L = micrograms per liter

George DeRuyter Dairy

Revised February 2012

Station Location	Sample Number	Analysis Type	Analyte	Result	Qualifier	Units
mg/L = milligrams per liter						
mg/Kg = milligrams per kilogram						
ug/Kg = micrograms per kilogram						

Data Qualifiers

< = less than

J = The analyte was positively identified. The associated numerical value is an estimate.

JN = There is evidence that the analyte is present. The associated numerical result is an estimate.

N = There is evidence the analyte is present in this sample.