

APPENDIX F - BMP SCORE SHEET

Producer/Dairy Name: _____

Date: _____

(Version 8; 10/28/11)

AQ BMP SCORE SHEET																	
BMP #	BMP Scores								Best Management Practice	Ammonia (NH ₃)	Nitrous Oxide (N ₂ O)	Hydrogen Sulfide (H ₂ S)	Volatile Organic Compounds (VOCs)	Odor	Particulate Matter (PM)	Methane (CH ₄)	Oxides of Nitrogen (NO _x)
	NH ₄	N ₂ O	H ₂ S	VOC	Odor	PM	CH ₄	NO _x									
I. Nutrition																	
I. 1	5	5	0	0	2	0	0	0	Properly manage level of dietary protein (~16% CP)								
I. 2	0	0	0	2	0	0	5	0	Increased level or quality of starch in diet (23-26%)								
I. 3	0	0	5	0	2	0	0	0	Manage and minimize overfeeding of sulfur-containing feed (0.2-0.4%)								
I. 4	5	5	5	0	5	0	2	0	Practice group and/or stage of lactation feeding								
	10	10	10	2	9	0	7	0	<i>Weighted Subtotal</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>
									<i>%</i>	<i>#DIV/0!</i>	<i>#DIV/0!</i>	<i>#DIV/0!</i>	<i>#DIV/0!</i>	<i>#DIV/0!</i>	<i>NA</i>	<i>#DIV/0!</i>	<i>NA</i>
II. Feed Management																	
II. 1	2	0	0	5	4	3	0	0	Properly manage ensiled feedstuffs								
II. 2	0	0	0	3	3	4	0	0	Store feed in a sheltered area or storage structure								
II. 3	1	0	0	3	3	4	0	0	Regularly re-pile or remove spilled and unused feed from feeding area								
II. 4	0	0	0	0	0	5	0	0	Manage or minimize feed mixing during windy times								
	3	0	0	11	10	16	0	0	<i>Weighted Subtotal</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>
									<i>%</i>	<i>#DIV/0!</i>	<i>NA</i>	<i>NA</i>	<i>#DIV/0!</i>	<i>#DIV/0!</i>	<i>#DIV/0!</i>	<i>NA</i>	<i>NA</i>
III. Milk Parlor																	
III. 1	3	0	0	0	0	0	0	0	Ensure proper ventilation								
III. 2/3	5	0	4	4	5	0	0	0	Use recycled (clean) or treated water for flushing parlor								
III. 2/3	5	0	4	4	5	0	0	0	Use recycled (clean) or treated water for cleaning holding pen								
III. 4	5	0	0	5	5	0	0	0	Remove manure from holding area frequently								
	18	0	8	13	15	0	0	0	<i>Weighted Subtotal</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>
									<i>%</i>	<i>#DIV/0!</i>	<i>NA</i>	<i>#DIV/0!</i>	<i>#DIV/0!</i>	<i>#DIV/0!</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>
IV. Housing - Freestall Barns																	
IV. 1	3	0	0	0	0	0	0	0	Ensure proper ventilation								
IV. 2	5	0	0	0	5	3	0	0	Bedding selection and management								
IV. 3	5	0	4	4	5	0	0	0	Treat recycled lagoon water used for flushing								
IV. 4	5	0	0	5	5	0	0	0	Remove manure from barns frequently								
IV. 5	5	0	3	5	5	0	0	0	Manure removal technology and efficiency								
IV. 6	3	0	0	0	3	0	0	0	Alleyway floor texture and type								
	26	0	7	14	23	3	0	0	<i>Weighted Subtotal</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>
									<i>%</i>	<i>#DIV/0!</i>	<i>NA</i>	<i>#DIV/0!</i>	<i>#DIV/0!</i>	<i>#DIV/0!</i>	<i>#DIV/0!</i>	<i>NA</i>	<i>NA</i>
V. Housing - Drylot Pens																	
V. 1	4	0	0	0	3	5	0	0	Provide shade for cattle								
V. 2	3	0	3	0	3	3	0	0	Siting of water trough within pen								
V. 3 (a)	1	0	0	1	5	4	1	0	Remove manure frequently								
V. 3 (b)	1	0	0	1	5	4	1	0	Spread (harrow) manure frequently								
V. 4	5	0	0	0	4	4	1	0	Use straw bedding in pen (seasonal)								
V. 5	5	0	0	0	5	4	2	0	Incorporate wood chips into surface layer								
V. 6	5	3	0	0	3	0	0	0	Utilize urease inhibitors								
V. 7	3	4	2	2	5	5	1	0	Surface moisture content management								
V. 8	1	0	1	0	5	0	0	0	Knock down and remove fence line manure								
	28	7	6	4	38	29	6	0	<i>Weighted Subtotal</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>
									<i>%</i>	<i>#DIV/0!</i>	<i>#DIV/0!</i>	<i>#DIV/0!</i>	<i>#DIV/0!</i>	<i>#DIV/0!</i>	<i>#DIV/0!</i>	<i>#DIV/0!</i>	<i>NA</i>

VI. Grazing Management													
VI. 1	4	4	0	0	3	2	0	0	Stock appropriate number of animals				
VI. 2	4	4	0	0	3	0	0	0	Use rotational grazing				
VI. 3	4	4	0	0	3	0	0	0	Move water and feeding areas frequently				
VI. 4	5	2	0	3	4	0	0	0	Irrigate immediately after grazing				
	17	14	0	3	13	2	0	0	Weighted Subtotal	0.0	0.0	0.0	
									%	#DIV/0!	#DIV/0!	NA	
VII. Manure Management													
VII. 1	2	0	2	0	2	0	1	0	Manure solids - mechanical separation				
VII. 1	2	0	2	0	2	0	1	0	Manure solids - settling basin				
VII. 2	5	0	5	5	5	0	5	0	Lagoon or storage covers (natural or composite)				
VII. 3	5	0	5	5	5	0	4	0	Scrub exhaust of enclosed waste containers				
VII. 4	0	0	0	5	4	0	5	0	Proper maintenance of installed methane digester				
VII. 5	3	0	3	3	5	0	0	0	Surface aeration of lagoons				
VII. 6	5	0	3	0	2	0	0	0	Reduce the pH of lagoons and manure piles below 6				
VII. 7	3	0	5	0	5	0	0	0	Purple sulfur bacterial formation in lagoons				
VII. 8	5	0	5	0	5	4	0	0	Properly manage the composting of manure				
VII. 9	5	0	4	0	4	4	3	0	Properly manage stockpiled manure				
	35	0	34	18	39	8	19	0	Weighted Subtotal	0.0	0.0	0.0	
									%	#DIV/0!	NA	#DIV/0!	
VIII. Land Application - Manure or Chemical Fertilizer													
VIII. 1	4	3	2	0	3	3	0	0	Apply N fertilizer below no-till residue				
VIII. 2(a)	5	5	5	5	5	3	3	0	Corn - Inject fertilizer/manure into soil at application				
VIII. 2(b)	5	5	5	5	5	3	3	0	Forage - Manure/fertilizer application method and/or incorporation practice				
VIII. 3	5	5	0	0	3	0	0	0	Apply nutrients according to agronomic recommendations based on soil and manure test results				
VIII. 4	4	4	0	0	0	0	0	0	Do not over-irrigate				
VIII. 5	3	3	0	0	0	4	0	0	Utilize cover crops in winter crop rotation				
VIII. 6	5	0	3	4	4	5	0	0	Apply during cool weather and on still rather than windy days				
	31	25	15	14	20	18	6	0	Weighted Subtotal	0.0	0.0	0.0	
									%	#DIV/0!	#DIV/0!	#DIV/0!	
IX. Other													
IX. 1	3	0	3	0	3	5	0	0	Installation of windbreaks or shelterbelts				
IX. 2	0	0	0	0	0	4	0	0	Vehicle road condition management				
IX. 3	0	0	0	0	0	0	5		Engine selection and efficiency				
	3	0	3	0	3	9	0	5	Weighted Subtotal	0.0	0.0	0.0	
									%	#DIV/0!	NA	#DIV/0!	
171 56 83 79 170 85 38 5										Weighted Total:	0.0	0.0	0.0
										Total Possible:	0	0	0
Total Percent (%) by Pollutant:										-	-	-	-

Overall Score (%) / Grade
 #DIV/0! #DIV/0!

Range	Grade
90-100%	A
80-90%	B
70-80%	C
60-70%	D
<60%	E