

Level 3 Document Name – Number: Aspects and Impacts Ranking – EMS 3.1 Requirements: EMS Manual EMS 1.0 Section 4.3.1 & ISO 14001 Section 4.3.1 Prepared by: _____ and approved by: _____	Revision #: 0
	Origination Date: 1/30/03
	Revision Date:
	Effective Date: 1/31/03 Page 1 of 10

Activity, Product, or Service	Aspect - Input	Aspect-Output	Impact	Scale of Impact	Public Concern	Legal	Cost	Probability	Total	Significant	Comments	Controls
Animal Care	Catastrophic mortalities	Disposal of bodies	Solid Waste	5	5	5	5	1	26	Y	Significant based on total rating 18 or above	Mortality Disposal procedure EMS 2
Routine House Management	Pipe failure in pumping event	wastewater	Water pollution, Soil contamination	5	5	5	5	1	26	Y	Significant based on total rating 18 or above	Spray field application procedure EMS 2
Routine House Management	Mechanical ventilation malfunction	Build up of noxious gases	Increased mortalities- Disposal of carcasses	5	5	5	5	1	26	Y	Significant based on total rating 18 or above	Mechanical Ventilation procedure EMS 2.2
Routine House Management	Cooling fan malfunction	Excess heat	Animal health	5	5	5	5	1	26	Y	Significant based on total rating 18 or above	Cooling fans procedure EMS 2.12
Spray Field Management	Operator error/field spraying	Over-application of wastewater	Water pollution, soil contamination, air emissions	5	5	5	5	1	26	Y	Significant based on total rating 18 or above	Spray field application procedure EMS 2.1
Spray Field Management	Equipment failure/field spraying	Over-application of wastewater	Water pollution, soil contamination, air emissions	5	5	5	5	1	26	Y	Significant based on total rating 18 or above	Spray field application procedure EMS 2.1
Spray Field Management	Excessive rain, poor weather conditions	wastewater runoff	water pollution	5	5	5	5	1	26	Y	Significant based on total rating 18 or above	Spray field application procedure EMS 2.1
Lagoon/Waste Management	Lagoon berm breaking	Waste water Spill	Water pollution, Soil contamination	5	5	5	5	1	26	Y	Significant based on total rating 18 or above	Lagoon berm maintenance procedure EMS 2.3;

Activity, Product, or Service	Aspect - Input	Aspect-Output	Impact	Scale of Impact	Public Concern	Legal	Cost	Probability	Total	Significant	Comments	Controls
												Nipple adjustment procedure EMS 2.10; Catastrophic Berm failure procedure EMS 2.14
Lagoon/Waste Management	Lagoon flooding	Waste water Spill	Water pollution, Soil contamination	5	5	5	5	1	26	Y	Significant based on total rating 18 or above	Spray field application procedure EMS 2.1; Nipple adjustment procedure EMS 2.10
Animal Care	Mortalities	Disposal of bodies	Solid waste	3	5	5	2	5	25	Y	Significant based on total rating 18 or above	Mortality disposal procedure EMS 2.4
Lagoon/Waste Management	Open Lagoon	Waste water seepage, VOC's, Ammonia emissions	Water pollution, soil contamination, air emissions	1	5	5	2	5	23	Y	Significant based on total rating 18 or above	Lagoon Berm maintenance procedure EMS 2.3; Nipple adjustment procedure EMS 2.10
Spray Field Management	Spray event	Energy use, Nutrients	Depletion of natural resources, Air Emissions, Water pollution, Soil contamination	1	5	5	2	3	21	Y	Significant based on total rating 18 or above	Spray field application procedure EMS 2.1
Lagoon/Waste Management	Maintaining Lagoon Levels	Waste water	air emissions, water pollution, Improper lagoon	1	5	5	2	1	19	Y	Significant based on total rating 18 or above	Nipple adjustment procedure EMS 2.10; Spray field application EMS 2.1

Level 3 Document Name – Number: Aspects and Impacts Ranking – EMS 3.1 Requirements: EMS Manual EMS 1.0 Section 4.3.1 & ISO 14001 Section 4.3.1 Prepared by: _____ and approved by: _____	Revision #: 0
	Origination Date: 1/30/03
	Revision Date:
	Effective Date: 1/31/03 Page 3 of 10

Activity, Product, or Service	Aspect - Input	Aspect-Output	Impact	Scale of Impact	Public Concern	Legal	Cost	Probability	Total	Significant	Comments	Controls
			functioning									
Lagoon/Waste Management	Sludge removal	Sludge	Water pollution, Soil contamination	1	1	5	5	1	18	Y	Significant based on total rating 18 or above	Sludge removal procedure EMS 2.5
Equipment Maintenance	Oil change	Used motor oil, oil containers, oil filters	Oil sent to recyclers	0	5	5	1	2	18	Y	Significant based on total rating 18 or above	Oil changes procedure EMS 2.6
Equipment Maintenance	Servicing vehicle cooling system	Used anti-freeze, anti-freeze containers, various parts	Recycle used anti-freeze and containers, solid waste	1	5	5	1	1	18	Y	Significant based on total rating 18 or above	Changing engine coolant procedure EMS 2.7
Lagoon/Waste Management	Berm maintenance/upkeep	Diesel use, Pesticides	Depletion of natural resources, Air emissions	2	0	5	2	3	17	N	Not significant based on total rating of 17 or below	
Routine House Management	Pump failure	build up of waste water in house	odor, animal health	3	5	2	2	2	16	N	Not significant based on total rating below 17	
Equipment Maintenance	Operator error while refueling	spilled petrol	Soil contamination, Water pollution	5	5	0	5	1	16	N	Not significant based on total rating below 17	
Load In/Receiving Animals	Mortalities	Disposal of bodies	Solid waste	1	4	4	1	1	15	N	Not significant based on total rating below 17	

Level 3 Document Name – Number: Aspects and Impacts Ranking – EMS 3.1 Requirements: EMS Manual EMS 1.0 Section 4.3.1 & ISO 14001 Section 4.3.1 Prepared by: _____ and approved by: _____	Revision #: 0
	Origination Date: 1/30/03
	Revision Date:
	Effective Date: 1/31/03 Page 4 of 10

Activity, Product, or Service	Aspect - Input	Aspect-Output	Impact	Scale of Impact	Public Concern	Legal	Cost	Probability	Total	Significant	Comments	Controls
Animal Care	Syringes	Sharps	Solid/medical waste	0	3	5	1	1	15	N	Not significant based on total rating below 17	
Routine House Management	Weekly pump out of house pits	Waste water	Water pollution	3	5	0	2	5	15	N	Not significant based on total rating below 17	
Routine House Management	Pit Flushing (manure cleaning)	Solid and liquid waste	Water pollution, odor, Air emissions	3	4	0	2	5	14	N	Not significant based on total rating below 17	
Routine House Management	Vector management	Introduce toxins	Water pollution	1	2	4	1	1	13	N	Not significant based on total rating below 17	
Clean-Up	Over application of disinfectant	Waste water	Water pollution, Increased odor emissions*	5	4	1	1	1	13	N	Not significant based on total rating below 17	
Lagoon/Waste Management	Maintaining Lagoon Levels	Energy	Depletion of natural resources	1	0	0	1	1	3	N	Not significant based on total rating below 17	
Animal Care	Heating	Propane use	Depletion of natural resources	2	0	0	5	5	12	N	Not significant based on total rating below 17	
Sell out	Isles and gates washed	Waste water	Water pollution, Water consumption	3	0	0	4	5	12	N	Not significant based on total rating below 17	
Clean-Up	House pre-washed	Waste water	Water pollution, Water consumption	3	0	0	4	5	12	N	Not significant based on total rating below 17	

Activity, Product, or Service	Aspect - Input	Aspect-Output	Impact	Scale of Impact	Public Concern	Legal	Cost	Probability	Total	Significant	Comments	Controls
Clean-Up	Pressure washed	Waste water; energy use	Water pollution, Water consumption, Depletion of natural resources	3	0	0	4	5	12		Not significant based on total rating below 17	
Clean-Up	Sprinklers	Waste water	Water consumption, Water pollution	3	0	0	4	5	12	N	Not significant based on total rating below 17	
Clean-Up	Soap wash	Waste water; containers	Water pollution; solid waste	3	0	0	4	5	12	N	Not significant based on total rating below 17	
Load In/Receiving Animals	Truck delivery of animals	Dust	Air particulates	1	0	0	5	5	11	N	Not significant based on total rating below 17	
Routine House Management	Cleaning isles	Waste water	Water pollution, water consumption	1	3	0	2	5	11	N	Not significant based on total rating below 17	
Routine House Management	Cleaning soiled comfort boards	Waste water	Water pollution, water consumption	1	3	0	2	5	11	N	Not significant based on total rating below 17	
Routine House Management	Cooling fans	Energy use	Depletion of natural resources	2	0	0	4	5	11	N	Not significant based on total rating below 17	
Routine House Management	Pit Flush Pump & timer	Energy use	Depletion of natural resources	3	0	0	2	5	10	N	Not significant based on total rating below 17	

Level 3 Document Name – Number: Aspects and Impacts Ranking – EMS 3.1 Requirements: EMS Manual EMS 1.0 Section 4.3.1 & ISO 14001 Section 4.3.1 Prepared by: _____ and approved by: _____	Revision #: 0
	Origination Date: 1/30/03
	Revision Date:
	Effective Date: 1/31/03 Page 6 of 10

Activity, Product, or Service	Aspect - Input	Aspect-Output	Impact	Scale of Impact	Public Concern	Legal	Cost	Probability	Total	Significant	Comments	Controls
Routine House Management	Refill of Pit	Energy use	Depletion of natural resources	3	0	0	2	5	10	N	Not significant based on total rating below 17	
Animal Care	Nipple height and flow adjustment	Reduced spillage	Water conservation	3	0	0	3	3	9	N	Not significant based on total rating below 17	
Routine House Management	Storm water	Storm water runoff*	Water pollution; increased lagoon levels	2	0	0	3	4	9	N	Not significant based on total rating below 17	
Spray Field Management	Weed management	Herbicides	Soil and water toxins	1	0	1	4	2	9	N	Not significant based on total rating below 17	
Equipment Maintenance	Refueling vehicles	*Above ground tank, 5 gallon 'gas' cans	Depletion of natural resources	1	1	0	2	5	9	N	Not significant based on total rating below 17	
Office	Septic System	Cleaning	Soil contamination, Water pollution	1	0	3	1	1	9	N	Not significant based on total rating below 17	
Load In/Receiving Animals	Heating	Propane Use	Depletion of natural resources	2	0	0	1	5	8	N	Not significant based on total rating below 17	
Spray Field Management	Mowing	Grass clippings, Diesel fuel use	Solid waste, Depletion of natural resources, Air emissions	2	0	1	3	1	8	N	Not significant based on total rating below 17	

Level 3 Document Name – Number: Aspects and Impacts Ranking – EMS 3.1 Requirements: EMS Manual EMS 1.0 Section 4.3.1 & ISO 14001 Section 4.3.1 Prepared by: _____ and approved by: _____	Revision #: 0
	Origination Date: 1/30/03
	Revision Date:
	Effective Date: 1/31/03 Page 7 of 10

Activity, Product, or Service	Aspect - Input	Aspect-Output	Impact	Scale of Impact	Public Concern	Legal	Cost	Probability	Total	Significant	Comments	Controls
Spray Field Management	Bailing	Diesel use, Bails	Depletion of natural resources, Air emissions	2	0	1	3	1	8	N	Not significant based on total rating below 17	
Lagoon/Waste Management	Rodent control	Rodenticide	Soil and water contamination	1	0	3	0	1	8	N	Not significant based on total rating below 17	
Office	Electrical use for office	Energy use	Depletion of natural resources	1	0	0	2	5	8	N	Not significant based on total rating below 17	
Load In/Receiving Animals	Lighting	Energy Use	Depletion of natural resources	1	0	0	1	5	7	N	Not significant based on total rating below 17	
Load In/Receiving Animals	Piggy Shocker	Energy use	Depletion of natural resources	1	0	0	1	5	7	N	Not significant based on total rating below 17	
Routine House Management	Incandescent lighting	Waste bulbs	Solid waste	1	0	0	1	5	7	N	Not significant based on total rating below 17	
Sell out	Shocker batteries charged	Energy use	Depletion of natural resources	1	0	0	1	5	7	N	Not significant based on total rating below 17	
Office	Office activities	Office paper	Solid waste	1	0	0	1	5	7	N	Not significant based on total rating below 17	
Routine House Management	Heating	Propane use	Natural resources	1	0	0	4	1	6	N	Not significant based on total rating below 17	

Level 3 Document Name – Number: Aspects and Impacts Ranking – EMS 3.1 Requirements: EMS Manual EMS 1.0 Section 4.3.1 & ISO 14001 Section 4.3.1 Prepared by: _____ and approved by: _____	Revision #: 0
	Origination Date: 1/30/03
	Revision Date:
	Effective Date: 1/31/03 Page 8 of 10

Activity, Product, or Service	Aspect - Input	Aspect-Output	Impact	Scale of Impact	Public Concern	Legal	Cost	Probability	Total	Significant	Comments	Controls
Routine House Management	Insect control	Packaging waste	Solid waste	1	0	0	1	4	6	N	Not significant based on total rating below 17	
Routine House Management	Rodent control	Packaging waste	Solid waste	1	0	0	1	4	6	N	Not significant based on total rating below 17	
Animal Care	Feed system cut-off switch failure	Spillage; waste feed; no feed delivered	Water pollution; Animal health, spillage	2	0	0	2	1	5	N	Not significant based on total rating below 17	
Animal Care	Water delivery/nipple system malfunction	Spilled water, or no water delivered	Depletion of natural resources, Animal health	2	0	0	2	1	5	N	Not significant based on total rating below 17	
Routine House Management	Mechanical ventilation	Energy use	Natural resources	1	0	0	3	1	5	N	Not significant based on total rating below 17	
Routine House Management	Natural ventilation/ thermostat controlled	Energy use	Depletion of natural resources	1	0	0	3	1	5	N	Not significant based on total rating below 17	
Sell out	Feeders emptied	Waste feed	Solid waste	1	0	0	0	4	5	N	Not significant based on total rating below 17	
Sell out	Feed lines bled out	Waste feed	Solid waste	1	0	0	0	4	5	N	Not significant based on total rating below 17	

Level 3 Document Name – Number: Aspects and Impacts Ranking – EMS 3.1 Requirements: EMS Manual EMS 1.0 Section 4.3.1 & ISO 14001 Section 4.3.1 Prepared by: _____ and approved by: _____	Revision #: 0
	Origination Date: 1/30/03
	Revision Date:
	Effective Date: 1/31/03 Page 9 of 10

Activity, Product, or Service	Aspect - Input	Aspect-Output	Impact	Scale of Impact	Public Concern	Legal	Cost	Probability	Total	Significant	Comments	Controls
Clean-Up	Disinfection	Waste water	Water pollution	3	0	0	1	1	5	N	Not significant based on total rating below 17	
Clean-Up	Disinfectant	Containers	Solid waste	1	0	1	1	1	5	N	Not significant based on total rating below 17	
Routine House Management	Curtain holes, broken curtain weights/ropes	Solid waste	Deplete landfill space	1	0	0	1	2	4	N	Not significant based on total rating below 17	
Animal Care	Feed	Empty feed bags	Solid waste/landfill	1	0	0	1	1	3	N	Not significant based on total rating below 17	
Animal Care	Medication	Empty bottles	Solid waste/landfill	1	0	0	1	1	3	N	Not significant based on total rating below 17	
Animal Care	Antibiotics	Empty bottles, Residual in manure	Solid waste/landfill, Microbial antibiotic resistance	1	0	0	1	1	3	N	Not significant based on total rating below 17	
Animal Care	Water delivery/pump	Energy use	Depletion of natural resource	1	0	0	1	1	3	N	Not significant based on total rating below 17	
Clean-Up	Curtain; outside walls cleaned	Waste water	Water usage	1	0	0	1	1	3	N	Not significant based on total rating below 17	

Level 3 Document Name – Number: Aspects and Impacts Ranking – EMS 3.1 Requirements: EMS Manual EMS 1.0 Section 4.3.1 & ISO 14001 Section 4.3.1 Prepared by: _____ and approved by: _____	Revision #: 0
	Origination Date: 1/30/03
	Revision Date:
	Effective Date: 1/31/03 Page 10 of 10

Activity, Product, or Service	Aspect - Input	Aspect-Output	Impact	Scale of Impact	Public Concern	Legal	Cost	Probability	Total	Significant	Comments	Controls
Equipment Maintenance	Equipment parts replacement	Solid waste	Landfill space	1	0	0	1	1	3	N	Not significant based on total rating below 17	
Routine House Management	Feed Bin Emptied/cleaned	waste feed	solid waste	1	0	0	0	1	2	N	Not significant based on total rating below 17	
Equipment Maintenance	Equipment cleaning	Dust	air emissions	1	0	0	0	1	2	N	Not significant based on total rating below 17	