

Valley Air Solutions

Located in the California San Joaquin Valley, serving customers worldwide

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DAIRY SITE SURVEY

Name of Site: _____

Total Herd Size: _____ Total Site Acreage: _____ County: _____

Physical Site Location: _____

City/State/Zip Code: _____

Formal Business Name: _____

Mailing Address: _____

City/State/Zip code: _____

Phone: _____ Fax: _____

Cell: _____ Email: _____

Person Responsible: _____ Title: _____

Alternate / Emergency Contact:

Name: _____ Phone: _____

Title: _____ Fax: _____

Address: _____ Cell: _____

City/State/Zip code: _____ Email: _____

CURRENT/PROJECTED HERD SIZE and CHARACTERISTICS						
	Milk cows	Dry Cows	Special Needs	Heifers 14-24 months	Heifers 4-14 months	Calves
Initial Herd (heads)						
Max Herd Capacity (heads)						
Avg. Animal Weight (pounds)						
Avg. Daily Manure (pounds)						

CURRENT/PROJECTED ANIMAL DAILY LOCATION						
	Milk cows	Dry Cows	Spec. Needs	Heifers 15-24 months	Heifers 4-14 months	Calves
Free Stall	Hrs	Hrs	Hrs	Hrs	Hrs	Hrs
Feed Alley	Hrs	Hrs	Hrs	Hrs	Hrs	Hrs
Open Coral	Hrs	Hrs	Hrs	Hrs	Hrs	Hrs
Pasture	Hrs	Hrs	Hrs	Hrs	Hrs	Hrs
Milking Center	Hrs					
Other	Hrs	Hrs	Hrs	Hrs	Hrs	Hrs
Total Hours	Col Totals to 24 Hrs	Col Totals to 24 Hrs	Col Totals to 24 Hrs	Col Totals to 24 Hrs	Col Totals to 24 Hrs	Col Totals to 24 Hrs

Manure Collection Method	Collection Frequency				
Free Stall	<input type="checkbox"/> Flush <input type="checkbox"/> Scrape	<input type="checkbox"/> Vacuum <input type="checkbox"/> Other	<input type="checkbox"/> Once <input type="checkbox"/> Twice	<input type="checkbox"/> 3 Times <input type="checkbox"/> 4 or More	<input type="checkbox"/> Day <input type="checkbox"/> Week <input type="checkbox"/> Month
Feed Alley	<input type="checkbox"/> Flush <input type="checkbox"/> Scrape	<input type="checkbox"/> Vacuum <input type="checkbox"/> Other	<input type="checkbox"/> Once <input type="checkbox"/> Twice	<input type="checkbox"/> 3 Times <input type="checkbox"/> 4 or More	<input type="checkbox"/> Day <input type="checkbox"/> Week <input type="checkbox"/> Month
Open Coral	<input type="checkbox"/> Flush <input type="checkbox"/> Scrape	<input type="checkbox"/> Vacuum <input type="checkbox"/> Other	<input type="checkbox"/> Once <input type="checkbox"/> Twice	<input type="checkbox"/> 3 Times <input type="checkbox"/> 4 or More	<input type="checkbox"/> Day <input type="checkbox"/> Week <input type="checkbox"/> Month
Milking Center	<input type="checkbox"/> Flush	<input type="checkbox"/> Other	<input type="checkbox"/> Once <input type="checkbox"/> Twice	<input type="checkbox"/> 3 Times <input type="checkbox"/> 4 or More	<input type="checkbox"/> Day
Other	<input type="checkbox"/> Flush <input type="checkbox"/> Scrape	<input type="checkbox"/> Vacuum <input type="checkbox"/> Other	<input type="checkbox"/> Once <input type="checkbox"/> Twice	<input type="checkbox"/> 3 Times <input type="checkbox"/> 4 or More	<input type="checkbox"/> Day <input type="checkbox"/> Week <input type="checkbox"/> Month

OTHER WASTE
What other organic waste (non-animal) needs digested or will be available? (Cheese Wastewater, Vegetable, Waste, etc)?
What other inorganic waste will need disposed of? (Plastic, Paper, etc)?

ESTIMATED DAILY WATER USAGE – Method 1 (Use either method)				Method 2
	Gallons of Recycled Water per day	Gallons of Fresh Water per day	Flush Frequency	Total Gallons of Dairy Wastewater sent to lagoon(s) daily
Free Stalls				
Feed Alley				
Milking Center				
Other				
Total				

WATER USAGE MEASUREMENT -

How will you measure the amount of water or wastewater used on daily basis?

Estimate Flow Meter Other

Free Stalls – What will be used as Bedding?

<input type="checkbox"/> Sand	<input type="checkbox"/> Dry Manure
<input type="checkbox"/> Mechanically Separated Manure	<input type="checkbox"/> Composted Manure
	<input type="checkbox"/> Other

PLANNED WASTE HANDLING & DISPOSITION

Waste Handling & Disposition (check all planned)	<input type="checkbox"/> NRSC Anaerobic Treatment Lagoon(s)	<input type="checkbox"/> Land Application
	<input type="checkbox"/> Aerobic Treatment Lagoon(s)	<input type="checkbox"/> Manure Stock Piles
	<input type="checkbox"/> Lagoon(s)	<input type="checkbox"/> Storage Pond(s)
	<input type="checkbox"/> Covered Lagoon & Gas Recovery	<input type="checkbox"/> Settling Basin
	<input type="checkbox"/> Methane or Anaerobic Digester	<input type="checkbox"/> Mechanical Separator
	<input type="checkbox"/> Regional/Centralized Digester	<input type="checkbox"/> Off-site Disposal
	<input type="checkbox"/> Processing Pit	<input type="checkbox"/> Other
	<input type="checkbox"/> Composting	

PLANNED LAGOONS, PONDS & SETTLING BASINS

How many treatment lagoons are on your site?

What is the size of each treatment lagoon (Length x Width x Depth) in feet? And Side Slope 1:1, 1:2 etc.

Lagoon #1		Lagoon #3	
Lagoon #2		Lagoon #4	

How many storage ponds are on your site?

What is the size of each storage pond (Length x Width x Depth) in feet?

Pond #1		Pond #3	
Pond #2		Pond #4	

How many settling basins are at your site?

What is the size of each settling basin (Length x Width x Depth) in feet?

Basin #1		Basic #3	
Basin #2		Basin #4	

How often is manure water applied to your land (e.g., twice/year)?

Do you use a processing pit or other water recycling/conservation system?

None Processing Pit Other

What controls are associated with the lagoon?

None Aerators Covered Lagoon Solids Separation Other

ON-FIELD ACTIVITIES

How many acres of cropland that you farm, are contiguous to your site
(include crops separated by roads & avenues)?

What method is planned to apply manure to your land?

Flood Irrigation Solid Spreading Liquid injection Sprinkler Irrigation Furrow Irrigation
 Other

PLANNED SOLID MANURE MANAGEMENT / STORAGE

How will solid manure be stored at your site? Open Piles Covered Piles Other

Will solid manure applied to your cropland? Yes No

If yes, how often? (e.g., twice/year)
Estimated tons/year?

Will solid manure hauled off-site? Yes No

If yes, how often? (e.g., twice/year)
Estimated tons/year?

Where is the manure hauled off to?

What other practices are planned to handle solid manure (e.g., composting, etc.)?

If your dairy composts manure, then what type of composting is done?

- None Windrow Aerated Static Pile (ASP) Enclosed ASP (e.g., AgBag, Gore Cover, etc)
 Negative Aerated Static Pile Other

PROJECTED WASTE DISPOSAL COSTS

What is your annual cost to handle, treat, transport and/or dispose of waste generated on your site?

PROJECTED ENERGY USAGE INFORMATION

Energy Source	Projected Total Annual Cost (\$ / yr)	Average Rate (\$ / unit)	Unit
Electricity			kWhr
Propane			gallons
Natural Gas			cubic feet
Other			

PROPOSED PURPOSE / RATIONALE

- | | | | |
|---|---|--|--|
| <input type="checkbox"/> Odor Control | <input type="checkbox"/> Reduce Waste | <input type="checkbox"/> Financial | <input type="checkbox"/> Neighbors/Community |
| <input type="checkbox"/> Generate Electricity | <input type="checkbox"/> Renewable Energy | <input type="checkbox"/> Marketing | <input type="checkbox"/> Reg. Compliance |
| <input type="checkbox"/> Steam / Hot Water | <input type="checkbox"/> Grant / Subsidy | <input type="checkbox"/> Environmental | <input type="checkbox"/> Other |