

Discussion Group	Comment
<b>Cultural and Historic Resources</b>	Will there be dyes put into the toilets of the Gillin House to establish a baseline vs. pig and cow contamination of water?
	Cultural use of valley until recently? - hunting, ranching, kalo, - rec including hiking, biking, horseback riding
	Why did earlier plans for kalo expansion in the valley not materialize?
	How does kalo cultivation in the area relate to burial and iwi?
	Ammonium changes to nitrate damage to ocean to waterways?
	Flooding effects on petroglyphs?
	Tsunami, what happens to cows?
	Are our concerns being acted on?
	How will access be handled?
	42 days of rains impacts?
	Temperature change impacts?
	Is anything being done except w/ the rock and heiau?
	Is there iwi? What will be done if it's found?
	Why don't you go back before 1840?
	Who follows the process if iwi is found?
	When are subsurface considerations included in the AIS & CIS?
	Is water part of the CIS?
	What about the relationship between the kalo and iwi? Of the babies?
How do you work with the land owner? Royal patent	
What is going to be done to protect cultural resources that are found?	

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<b>Natural Resources</b>	Will the dairy introduce foreign insects. If so what species?
	Will dairy operation introduce grasses not already on Kauai? If so what species?
	How will the dairy control the odor?
	Will manure infiltrate the public water supply?
	What is causing the water / stream pollution of Waiopili Stream? Is it Grove Farm?
	What is the number of herd?
	Where is the milk really going?
	Will bot flies swarm from the dairy?
	Will surface water run off from the dairy to the ocean? Stream/Ocean
	Sub-surface consideration for water?
	Potential nutrient run off
	How will spray be contained with varied wind speed?
	Why was this site chosen? On Kauai...specific soils and water supply
	How was the site defined?
	What other alternatives ag. use of the land?
	How far will odor carry from the farm?
	What pests / insects may come from the dairy?
	How will the dairy agree no incidental danger take of migratory birds?
	How to protect endangered species on the property?
	How to identify current water pollution hazards in the stream?
	EIS Study to address the impact of the dairy pollution was at 100%, 75%, 50%? What is the optimal cow pop (population) to mitigate / prevent environmental impacts (soil, water)
	Are the grasses adequate to sustain milk production?
	Is there a larger venue for future meetings?
	What is the definition of: - grass fed, - zero discharge, - sustainable
Will the EIS study be long enough to identify seasonal use of area endangered birds?	
What is the value of the natural capital of Mahaulepu as is?	
What insect control will be used? Pesticides? Neonicotinoids	
Identify wet lands in watershed?	

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Dairy Facilities	How many cows per acre / paddock and for how long? - grass concerns, nutrients How will the effluent ponds be affected in a natural disaster? And storms How can we prevent the pond liner from breaking/leaking? What's being done about high clay content soil and effluent ponds? How do you keep effluent from getting to the beach (from P226)? Why this site? Cost? Access? Other considerations? Why a dairy of this size? What happens to the milk? is there another site? What happens to the infrastructure if the dairy fails? - will \$ be allocated to restore? What is the processing process? How many employees will be on the farm? What is being done to protect cows from elements while in pasture for 22 hours? Why 699 cows? One short of 700 "feed lot status" Will landowners Steve Case and Warren Haruki personally be responsible for farm? How do you monitor sub-surface h2o resources? How are we monitoring for natural disasters, etc.? Will the animals be fed antibiotics/hormones and will that affect valley water quality? How do you prevent effluent, hormones from polluting the ground, water? How are the cattle treated? Where are the non-milking cows kept? How does this affect water, soil, land? And what additional strains will it put on planned operation? What happens during the period before the no-dairy cows are moved to other site? What's being done to study the distance aerosolized effluent will travel w/ Kauai trades when effluent is spread through overhead irrigation? How will pasture topography affect the slope of the runoff to the ocean? What specific mitigations to the environment will happen if # of cows was reduced by 25%? 50%? What happens to the calves? How will the cows being moved off the dairy impact the island? - geographical? Economical? Environmental? Will the dairy permanently shut down if the environmental hazards occur? And who will regulate / monitor? Operation / maintenance plan for the effluent pond liners? Can there be a system where they are routinely replaced even if still working condition? At what point does the amount of grain fed to cow vs. amount of grass constitute this as a grass-fed dairy? Economic viability of dairy? Where is the feed/grain coming from and is it GMO? What indicators will be used to determine herd growth/reduction? - has to be more than amount of nutrient provided by grass, - air quality / water quality / pests Could the effluent methane be used as a resource i.e. power plant? How many estimated deceased cows per month? (animal cemetery) Will the alternative use of growing food to provide for Kauai's people be considered? (Kauai's natural resources should be used to benefit Kauai.)

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Dairy Facilities (cont.)	* If the EIS is accepted by the Department of Health and the project is started, what if - in future years (7 - 10 or even more years after project start) - major complaints and problems occur? What will happen then? * Will cost of milk be higher than it is now because it will be shipped off island for processing and shipped back for purchase?

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Soil and Water Resources	Why not an alternate site?
	Why Mahaulepu?
	Potential impacts on Poipu visitor industry and real estate values
	We would like a guarantee of no impact on drinking water wells. Who is liable/responsible?
	There is no such thing as zero discharge - concern over nitrate migration and phosphate
	Where will the dairy product actually go?
	After dairy is approved, will they be able to sell, build, or develop the land of other purposes?
	EIS preparer Group 70 should be impartial and needs expertise for an EIS
	Hawaiian people had sustainability without milk
	If runoff goes into the ocean, you're killing the fishing rights, coral, fish, water quality
	The nitrates / nitrogen-related compounds creates dead zones
	Need to conduct percolation tests, - concern is groundwater and surface water contamination for the valley and outside the valley, - high water table down gradient of the dairy
	Watersheds level hydrology studies, - Mahaulepu and Paa watersheds
	Nutrient balance for guinea grass and kikuyu
	Cows must want to go eat the grass
	soil sampling must be comprehensive across the dairy site
	current pollution levels in soil, stream, irrigation ditches, beach, ocean and what will be done to address current severe envt issues prior to farm beginning operations!
	Why use the word "nutrient" instead of manure or hazardous waste?
	Federal soils study in 2014
	Why not put farm up mauka and further away from ocean?
	Why not lease former sugar lands / state lands in Kekaha Mauka?
	Are you building terraces and what will the lay of the land be?
	bad example dairies - Washington, Oregon, California, New Zealand, Wisconsin, Hawaii
	Alternative locations need to be addressed and socio-economics
	Use technology to manage manure treatment. Ex: to build power plants and see it as a resource
	Sub-surface considerations, -lava tubes, drainage, archeology, - what will be done when there's a problem
	water in the Waita Reservoir does not belong to Grove Farm
	Well waters - how will contamination be prevented?
	Proof of title for dairy property
	Hire impartial consultants for study, - state referral
	Impacts / benefits to county/state taxes (not including property taxes)
	More support is needed for small dairies
	Any activities to look for another site, - more compatible, less costly, less risk
What is causing water pollution at Mahaulepu now (human or animal), if it's human, is it Grove Farm sewage dump? (sludge disposal), Will it be solved before dairy begins operations?	
Will antibiotics and hormones be used and concerns over if they will get into water supply and streams	
What is the optimum number of cows to mitigate damage to soil, water, air, and specifically the ocean?	
What impacts will it have to taro fields and production?	