

**APPENDIX C**  
**Mitigation Monitoring Plan**

DRAFT KINGS COUNTY DAIRY ELEMENT MITIGATION MONITORING PLAN				
Environmental Impact	Mitigation Measures	Responsibility for Compliance	Method for Compliance	Timing of Compliance
<b>Geology, Soils, and Seismicity</b>				
4.1-1 Construction of proposed embankments to contain dairy operations process water present the potential for erosion and slope failure and release of contained process water.	4.1-1 <i>None required.</i>  Compliance with the requirements of Policies DE 2.1f, 3.1a, and 6.2b would ensure that potential adverse geotechnical issues would be evaluated by a qualified professional.	Applicant  KCPA/DMO	Submit Geotechnical Report.  Annual inspection of slopes.  Confirm compliance with Policies DE 2.1f, 3.1a, and 6.2b.  Review individual dairy logs.	SPR  Annually  SPR  Operations
4.1-2 Disturbance of agricultural soils caused by construction of dairy facilities.	4.1-2 <i>None required.</i>		NA	
4.1-3 Potential damage during expected seismic shaking.	4.1-3 <i>None required.</i>  Implementation of Policy DE 2.1f and enforcement of existing building code requirements would reduce the potential impacts related to seismic shaking to a less-than-significant level.	Applicant  KCPA/DMO	Submit Geotechnical Report.  Confirm compliance with Policy DE 2.1f.	SPR  SPR
4.1-4 The moderate to high shrink-swell potential and the potential for corrosion of uncoated steel and concrete within soils could present significant maintenance and stability problems for pipelines, foundations, and pavements.	4.1-4 <i>None required.</i>  Implementation of Policy DE 2.1f and compliance with the requirements of the Uniform Building Code will reduce adverse soil condition impacts.	Applicant  KCPA/DMO	Submit Geotechnical Report.  Confirm compliance with Policy DE 2.1f	SPR  SPR
<b>Air Quality</b>				
4.2-1 Construction activities associated with new or expanded dairies would result in a short-term increase in PM <sub>10</sub> emissions from fugitive dust sources.	4.2-1 <i>None required.</i>  Implementation of Policy 5.1d of the Element would reduce short-term construction-related PM <sub>10</sub> emissions from fugitive dust to a less-than-significant level.	Applicant  SJVUAPCD	Implement SJVUAPCD controls.  Enforce Regulation VIII rules	Operations  Operations
4.2-2 Construction activities associated with new or expanded dairies would result in short-term exhaust emissions from construction equipment.	4.2-2 <i>None required.</i>  Implementation of the Element would reduce construction related exhaust emissions to a less-than-significant level.		NA	

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NA	Not applicable
NAHC	Native American Heritage Commission
RWQCB	Regional Water Quality Control Board (Central Valley)
SPR	Site Plan Review

KINGS COUNTY DAIRY ELEMENT MITIGATION MONITORING PLAN <i>(continued)</i>				
Environmental Impact	Mitigation Measures	Responsibility for Compliance	Method for Compliance	Timing of Compliance
4.2-3 Operation of new or expanded dairies could increase PM <sub>10</sub> air pollutant emissions from fugitive dust, exhaust from agricultural and dairy equipment, vehicular traffic exhaust, and formation of secondary PM <sub>2.5</sub> .	4.2-3a (Fugitive Emissions from Unpaved Areas) <i>No additional feasible mitigation measures are available for the control of fugitive dust.</i>  Implementation of Policies DE 5.1e, 5.1g, 5.1h, 6.1a, 6.2c, and 6.1b of the Element would reduce and control PM <sub>10</sub> emissions from fugitive dust at future or expanded dairies.	Applicant	Submit Fugitive Dust Emissions Control Plan Submit air emissions estimates.	SPR
			Implement SJVUAPCD controls. Conduct and log visual inspections.	Operations
		KCPA/DMO	Confirm submittal of Fugitive Dust Emissions Control Plan and air emission estimates. Review dairy log books.	SPR Operations
		SJVUAPCD	Enforce Regulation VIII rules.	Operations
	4.2-3b (Secondary PM <sub>2.5</sub> ) <i>No additional feasible mitigation measures are available.</i>  Implementation of Policies DE 3.1a, 5.1c, 5.1e, 6.1a, 6.2d, 6.3a, and 6.1b would be expected to reduce ammonia generated from dairy facilities and would also reduce other air pollutants generated from cattle manure.	Applicant	Submit Manure Treatment Management Plan and Odor Management Plan.	SPR
			Implement Manure Treatment Management Plan and Odor Management Plan. Perform and document volatile solids testing Perform and document quality assurance/control for plans.	Operations
		KCPA/DMO	Confirm submittal of Manure Treatment Management Plan and Odor Management Plan. Review dairy log books.	SPR Operations
	4.2-3c (Equipment Exhaust) <i>No additional feasible mitigation measures are available.</i>  Implementation of Policy DE 5.1i would reduce the potential for PM <sub>10</sub> emissions from exhaust sources although the amount of the reduction is unknown.	Applicant	Submit air emissions estimates.	SPR
		KCPA/DMO	Confirm submittal of air emission estimates.	SPR



KINGS COUNTY DAIRY ELEMENT MITIGATION MONITORING PLAN <i>(continued)</i>				
Environmental Impact	Mitigation Measures	Responsibility for Compliance	Method for Compliance	Timing of Compliance
4.2-6 Operation of new or expanded dairies would generate ammonia emissions from cattle manure.	4.2-6 <i>No additional feasible mitigation measures are available.</i>  Implementation of Policies DE 3.1a, 5.1c, 5.1e, 6.1a, 6.2d, 6.3a, and 6.1b would be expected to reduce ammonia and other air pollutants generated from cattle manure.	Applicant	Submit Manure Treatment Management Plan and Odor Management Plan.	SPR
		KCPA/DMO	Implement Manure Treatment Management Plan and Odor Management Plan. Perform and document volatile solids testing. Perform and document quality assurance/control for plans.  Confirm submittal of Manure Treatment Management Plan and Odor Management Plan and compliance with Policies DE 3.1a, 5.1c, 5.1e, 6.1a, 6.2d, 6.3a, and 6.1b. Review dairy log books.	Operations  SPR Operations
4.2-7 Operation of new or expanded dairies would generate hydrogen sulfide emissions.	4.2-7 <i>No additional feasible mitigation measures are available.</i>  Implementation of Policies DE 3.1a, 5.1c, 6.1a, 6.2d, 6.2e, 6.3a, and 6.1b would be expected to reduce hydrogen sulfide and other air pollutants generated from cattle manure.	Applicant	Submit Manure Treatment Management Plan and Odor Management Plan.	SPR
		KCPA/DMO	Implement Manure Treatment Management Plan and Odor Management Plan. Perform and document volatile solids testing. Perform and document quality assurance/control for plans.  Confirm submittal of Manure Treatment Management Plan and Odor Management Plan and compliance with Policies DE 3.1a, 5.1c, 6.1a, 6.2d, 6.2e, 6.3a, and 6.1b. Review dairy log books.	Operations  SPR Operations
4.2-8 Operation of new or expanded dairies would generate methane emissions from cattle and cattle manure.	4.2-8 <i>No additional feasible mitigation measures are available.</i>  Implementation of Policies DE 3.1a, 5.1c,, 6.1a, 6.2d, 6.2e, 6.3a, and 6.1b would reduce methane generated from ruminant livestock and manure.	Applicant	Submit Manure Treatment Management Plan and Odor Management Plan.	SPR
		KCPA/DMO	Implement Manure Treatment Management Plan and Odor Management Plan. Perform and document volatile solids testing. Perform and document quality assurance/control for plans.  Confirm submittal of Manure Treatment Management Plan and Odor Management Plan and conform with Policies DE 3.1a, 5.1c,, 6.1a, 6.2d, 6.2e, 6.3a, and 6.1b. Review dairy log books.	Operations  SPR Operations

4.2-9 Increased localized carbon monoxide would be generated from vehicular traffic during operation of new or expanded dairies.	4.2-9 <i>None required.</i> Implementation of Policy DE 3.1g would reduce the potential for adverse queuing of traffic generated by dairy development and the potential for a significant increase in CO emissions.		NA	
4.2-10 Implementation of the Element would result in a cumulative increase in PM <sub>10</sub> emissions.	4.2-10 <i>None available.</i> Although implementation of Policies DE 5.1e, 5.1g, 5.1h, 6.1a, 6.2c, and 6.1b of the Element would reduce PM <sub>10</sub> emissions from cumulative project operations, PM <sub>10</sub> emissions could continue to be generated during cumulative operations..		See Mitigation Measure 4.2-3.	
4.2-11 Implementation of the Element would result in a cumulative increase in ozone precursor emissions.	4.2-11 <i>None available.</i> Although implementation of Policies DE 5.1c, 6.1a, 6.2d, 6.2e, and 6.3a would reduce or prevent the release of ozone precursor emissions into the environment from manure storage or collection systems, ozone precursor emissions would continue to be generated from existing, new, or expanded dairies in the County (i.e., exhaust emissions, manure stockpile, initial deposition of manure).		See Mitigation Measure 4.2-5.	
4.2-12 Implementation of the Element would result in a cumulative increase in methane emissions.	4.2-12 <i>None available.</i> Implementation of Policies DE 3.1a, 5.1c, 6.1a, 6.2d, 6.2e, 6.3a, and 6.1b of the Element would reduce but not eliminate methane emissions from cumulative projects in the San Joaquin Valley air basin.		See Mitigation Measure 4.2-8.	
4.2-13 Implementation of the Element would result in a cumulative increase in hydrogen sulfide emissions.	4.2-13 <i>None available.</i> Implementation of Policies DE 3.1a, 5.1c, 6.1a, 6.2d, 6.2e, 6.3a, and 6.1b of the Element would reduce but not eliminate hydrogen sulfide emissions from cumulative projects in the San Joaquin Valley air basin.		See Mitigation Measure 4.2-7.	
4.2-14 Implementation of the Element would result in a cumulative increase in ammonia emissions.	4.2-14 <i>None available.</i> Implementation of Policies DE 3.1a, 5.1c, 6.1a, 6.2d, 6.2e, 6.3a, and 6.1b of the Element would reduce but not eliminate ammonia emissions from cumulative projects in the San Joaquin Valley air basin.		See Mitigation Measure 4.2-6.	

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- SPR Site Plan Review

KINGS COUNTY DAIRY ELEMENT MITIGATION MONITORING PLAN <i>(continued)</i>				
Environmental Impact	Mitigation Measures	Responsibility for Compliance	Method for Compliance	Timing of Compliance
<b>Water Resources</b>				
4.3-1 Construction activities associated with new or remodeled dairies could result in degradation of water quality in receiving waters by reducing the quality of storm water runoff.	4.3-1 <i>None required.</i> Implementation of existing National Pollutant Discharge Elimination System regulations (including the construction period SWPPP) would reduce this potential impact to a less-than-significant level.		NA	
4.3-2 Projects implemented under the Element could modify surface water drainage patterns, potentially causing localized off-site migration of runoff, erosion, and/or flooding.	4.3-2 <i>None required.</i> Conformance with State Confined Animal Facility regulations and implementation of Policies DE 1.2c, 1.2f, 3.2c, 3.2d, 4.1b, and 4.1c would reduce impacts associated with runoff from dairy facilities to a less-than-significant level.	Applicant	Demonstrate compliance with Policies DE1.2c and 1.2f siting requirements. Demonstrate compliance with 150-foot setbacks from wells and water bodies. Submit Irrigation Management Plan, Manure Nutrient Management Plan.	SPR
		KCPA/DMO	Confirm conformance of application with Policies DE 1.2c, 1.2f, 3.2c, 3.2d, 4.1b, and 4.1c.	SPR
4.3-3 Implementation of the proposed project would result in an increase in impervious surfaces, potentially increasing runoff volumes and velocities.	4.3-3 <i>None required.</i> Compliance with existing State Confined Animal Facility regulations and programs would reduce the impact to a less-than-significant level without additional mitigation.	Applicant	Conform with State Confined Animal Facility regulations.	SPR
		RWQCB	Enforce State Confined Animal Facility regulations.	SPR
4.3-4 Dairies located in flood-prone areas could be damaged or rendered temporarily inoperable during a flood event. In addition, flood waters could inundate dairy facilities (manured areas and/or process water storage facilities) and fields where wet or dry manure had been recently applied causing impacts to surface water quality.	4.3-4 <i>None required.</i> Implementation of the pollution prevention actions required by the Element, including Policies DE 1.2c, 3.2d, and 3.2g, would minimize the potential for degradation of water quality during flood events and reduce the impact to a less-than-significant level.	Applicant	Demonstrate compliance with Policies DE1.2c, siting requirements and Policies DE 3.2d and 3.2g.	SPR
		KCPA/DMO	Confirm conformance of application with Policies DE 1.2c, 3.2d, and 3.2g.	SPR
4.3-5 Operation of existing and new dairies could result in releases of pollutants (including nutrients such as nitrogen and phosphorus), impacting the quality of surface waters.	4.3-5 <i>None required.</i> Compliance with existing regulations and programs and Policies DE 1.2f, 3.1a, 4.1a, 4.1b, 4.1c, and 4.1d proposed by the Element would reduce potential impacts to surface water quality to a less-than-significant level without additional mitigation.	Applicant	Demonstrate compliance with Policies DE 1.2c and 1.2f. siting requirements. Demonstrate compliance with 150-foot setbacks from wells and water bodies.	SPR
			Submit and implement Irrigation Management Plan, Manure Nutrient Management Plan.	SPR
		KCPA/DMO	Confirm conformance of application with Policies DE 1.2f, 3.1a, 4.1a, 4.1b, 4.1c, and 4.1d. Review dairy log books.	Operations SPR

4.3-6 Implementation of the proposed project could result in depletion of water resources.	<p>4.3-6 <i>None required.</i></p> <p>Implementation of Policy DE 3.2h would reduce the impact of depletion of water resources to a less-than-significant level.</p>	<p>Applicant</p> <p>KCPA/DMO</p>	<p>Submit Hydrologic Sensitivity Assessment if dairy is in Kettleman Plain or Sunflower Valley.</p> <p>Confirm submittal of Hydrologic Sensitivity Assessment if dairy is in Kettleman Plain or Sunflower Valley and compliance with Policy DE 3.2h.</p>	<p>SPR</p> <p>SPR</p>
4.3-7 Activities associated with dairy facilities and support cropland could result in an increase in the rate of salt and nitrogen loading, and the release of pathogens in the basin, degrading groundwater quality.	<p>4.3-7 <i>None required.</i></p> <p>Implementation of Policies DE 1.2c, 1.2d, 1.2f, 3.1a, 3.2a, 3.2b, 3.2c, 3.2h, 3.2i, 4.1a.A, 4.1a.B, 4.1b, 4.1c, 6.2f, and 6.4d would reduce localized and regional groundwater quality impacts to a less-than-significant level.</p>	<p>Applicant</p> <p>KCPA/DMO</p> <p>RWQCB</p>	<p>Demonstrate compliance with Policies DE1.2c, 1.2d, and 1.2f. siting requirements.</p> <p>Demonstrate compliance with 150-foot setbacks from wells and water bodies.</p> <p>Inspect seals of all water supply wells.</p> <p>Submit Groundwater Evaluation, Irrigation Management Plan, Manure Nutrient Management Plan and, if required, Comprehensive Dairy Process Water Application Plan and Hydrologic Sensitivity Assessment.</p> <p>Install groundwater monitoring system</p> <p>Conduct background and annual groundwater and soil water testing and evaluation.</p> <p>Conduct and document annual separation pit lagoon inspections.</p> <p>Confirm conformance of application with Policies DE 1.2c, 1.2d, 1.2f, 3.1a, 3.2a, 3.2b, 3.2c, 3.2h, 3.2i, 4.1a.A, 4.1a.B, 4.1b, 4.1c, 6.2f, and 6.4d.</p> <p>Review annual water quality data.</p> <p>Issue and amend Waste Discharge Requirements, if required.</p> <p>Review annual water quality data.</p>	<p>SPR</p> <p>Before operation</p> <p>Before and during operation</p> <p>SPR</p> <p>Ongoing</p> <p>Ongoing</p>

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Environmental Impact	Mitigation Measures	Responsibility for Compliance	Method for Compliance	Timing of Compliance
4.3-8 Existing water supply wells may represent preferred pathways for pollutant migration to the subsurface.	4.3-8 <i>None required.</i>	Applicant	Demonstrate compliance with 150-foot setbacks from wells and water bodies. Inspect seals of all water supply wells.	SPR
	Implementation of Policies DE 3.2c and 3.2i would reduce the impacts associated with potential direct migration of pollutants into wells to a less-than-significant level.	KCPA/DMO	Confirm conformance of application with Policies DE 3.2c and 3.2i.	SPR
4.3-9 Implementation of the proposed Element could result in cumulative impacts to water quality.	4.3-9 <i>None required.</i>	Applicant	Compliance with Policies DE 1.2c, 1.2d, 1.2f, 3.1a, 3.2a, 3.2b, 3.2c, 3.2g, 3.2h, 4.1a, 4.1b, 4.1c, 6.2f, and 6.4d.	SPR
	Implementation of Policies DE 1.2c, 1.2d, 1.2f, 3.1a, 3.2a, 3.2b, 3.2c, 3.2g, 3.2h, 4.1a, 4.1b, 4.1c, 4.4a, 6.2f, and 6.4d would reduce the cumulative impact to groundwater quality to a less-than-significant level.	KCPA/DMO	Implementation of Dairy Element.	Ongoing
<b>Biological Resources</b>				
4.4-1 Dairy development could result in conversion of existing vegetative cover and associated wildlife habitat, including habitat for special-status species or sensitive natural communities.	4.4-1 <i>None required.</i>	Applicant	Submit Biological Resources Survey.	SPR
	Implementation of Policies DE 1.2e and 3.3a would reduce the biological resource impacts to a less-than-significant level.	KCPA/DMO	Confirm conformance of application with Policies DE 3.3a.	SPR
4.4-2 Loss and modification of wetlands.	4.4-2 <i>None required.</i>	Applicant	Submit Biological Resources Survey.	SPR
	Implementation of Policies DE 1.2e and 3.3a would reduce the biological resource impacts to a less-than-significant level.	KCPA/DMO	Confirm conformance of application with Policies DE 3.3a.	SPR
<b>Noise</b>				
4.5-1 Construction activities associated with new or expanded dairies would result in short-term noise increases.	4.5-1 <i>None required.</i>		Conformance with General Plan Noise Element.	
4.5-2 Operation of a new or expanded dairy could increase noise levels generated by additional vehicular traffic.	4.5-2 <i>None required.</i>		NA	
4.5-3 New or expanded dairies could be exposed to adverse existing noise sources.	4.5-3 <i>None required.</i>	Applicant	Conformance with General Plan Noise Element. Demonstrate compliance with Policy DE 1.2b.	SPR
	Compliance with Policy 40c of the General Plan and Policy DE 1.2b of the Element would reduce construction-related noise impacts to a less-than-significant level without additional mitigation.	KCPA/DMO	Confirm conformance with Policy DE 1.2b	SPR

4.5-4 Noise levels generated by project operations.	4.5-4 <i>None required.</i>  Implementation of Policies DE 6.4a through 6.4c of the Element and compliance with Policies 40a and 40b of the General Plan would reduce noise impacts related to dairy operations to a less-than-significant level.	Applicant  KCPA/DMO	Conformance with General Plan Noise Element.  Implement Policies DE 6.4a through 6.4d in response to complaints.	SPR  SPR
<b>Visual Resources</b>				
4.6-1 The general height, scale, lighting, and design of typical dairy facilities that would be allowed under the Element would be consistent with other farming operations in the agricultural zones of Kings County.	4.6-1 <i>None required.</i>		NA	
4.6-2 There is a potential for outdoor lighting and glare associated with dairies allowed under the Element to affect nearby rural residences.	4.6-2 <i>None required.</i>  Implementation of Policies DE 1.2i, 3.1a, 3.1b, 3.1c, 3.1h, and 6.4a through 6.4c would reduce the potential for light and glare impacts to a less-than-significant level.	Applicant  KCPA/DMO	Submit outdoor lighting design consistent with Policy DE 3.1h.  Confirm conformance with Policy DE 3.1h. Implement Policies DE 6.4a through 6.4d in response to complaints.	SPR  SPR
<b>Land Use and Policies</b>				
4.7-1 Since the Element goals, policies, and programs would be consistent with applicable policies of the Kings County General Plan, there are no significant impacts.	4.7-1 <i>A new goal, new objective, and two new policies shall be added to the Kings County Land Use Element under "III. Policies for Rural Areas," which cross-references the Element, to direct readers to the additional policies in the adopted Element. The proposed new Land Use Element goal and policies recommended to be added are as follows:</i>  "Goal 9A: Restrict the locations where dairies may be located to those areas of the County where they are most compatible with surrounding uses and activities and environmental constraints as presented in the <i>Dairy Element</i> .  "Objective 9A.1: Use specific standards to avoid potential land use conflicts through the site plan review (SPR) streamlined review process when approving new dairies and expansion of existing dairies.	Applicant  KCPA	None  Modify Kings County General Plan.	Adoption of Dairy Element

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	<p>“Policy 9A.1a: Proposed new dairies and expansions of existing dairies, and associated dairy stock replacement facilities, may be approved through the SPR process if they meet all of the standards in the <i>Dairy Element</i> concerning siting, design, operation, monitoring and reporting.”</p>			
4.7-2 Since some of the Element policies and programs supercede and are more restrictive than dairy regulations in the Kings County Zoning Ordinance, there are no significant impacts.	<p>4.7-2 <i>New text shall be added to the Kings County Zoning Ordinance, Section 2102, Site plan review application and fee, as follows:</i></p> <p>“Applications for proposed new bovine dairy facilities, and expansions of existing facilities exceeding the baseline capacity, shall be approved through the site plan review process if the applications meet all of the specified criteria of the Element.”</p> <p><i>Section 1908(F) of the Kings County Zoning Ordinance shall be deleted in its entirety and replaced with the following text:</i></p> <p>“Applications for proposed new bovine dairy facilities, and substantial expansions of existing facilities, shall be approved through the site plan review process if the applications meet all of the specified criteria of the Element. A site plan review may be approved by the zoning administrator for a new or expanded bovine dairy facility if the dairy is in compliance with the design criteria contained in the Element.”</p>	<p>Applicant</p> <p>KCPA</p>	<p>None</p> <p>Modify Kings County Zoning Ordinance.</p>	Adoption of Dairy Element
4.7-3 New and expanded dairy facilities allowed under the Element could cause impacts to natural resources and sensitive land uses.	<p>4.7-3 <i>None required.</i></p> <p>Implementation of the policies of the Element would reduce the potential adverse impacts to biological and natural resources to a less-than-significant level.</p>		See Mitigation Measures 4.4-1 and 4.4-2.	
4.7-4 Implementation of the Element will prevent or minimize impacts to residentially zoned lands within the four cities, rural communities, and other sensitive uses.	<p>4.7-4 <i>None required.</i></p> <p>Implementation of Policies DE 1.2a, 1.2b, 1.2g, 1.2i, and 1.2j of the Element would reduce the potential noise, lighting, and odor impacts of dairy facility operations and process water irrigation on new subdivision residents within the three cities.</p>	<p>Applicant</p> <p>KCPA/DMO</p>	<p>Demonstrate conformance with Policies DE 1.2a, 1.2b, 1.2g, 1.2i, and 1.2j.</p> <p>Confirm conformance with Policies DE 1.2a, 1.2b, 1.2g, 1.2i, and 1.2j.</p>	<p>SPR</p> <p>SPR</p>
4.7-5 New and expanded dairy facilities allowed under the Element could cause impacts to adjacent individual rural residences in the agricultural areas.	<p>4.7-5 <i>None required.</i></p> <p>Implementation of the policies of the Element would reduce the potential noise, traffic, lighting, and odor impacts of dairy facility operations and process water irrigation on nearby residences to a less-than-significant level.</p>		See Mitigation Measures 4.2-4, 4.3-2, 4.3-4, 4.5-3, 4.6-2, and 4.9-1.	

Human Health/Risk of Upset				
4.8-1 Workers could be exposed to hazardous materials during dairy operation, resulting in adverse health impacts.	4.8-1 <i>None required.</i>  Implementation of Policy DE 4.3a and conformance with hazardous materials laws and regulations would reduce this impact to a less-than-significant level.	Applicant	Submit Business Plan. Conform with applicable laws and regulations for hazardous materials.	Operations
		KCEHS	Review and approve Business Plan.	Operations
4.8-2 Potential exposure to residual agricultural chemicals during construction of the dairy facilities, resulting in adverse health impacts.	4.8-2 <i>None required.</i>		NA	
4.8-3 Operation of the dairies could result in increased vector activity, potentially creating adverse human health impacts.	4.8-3 <i>None required.</i>  Implementation of Policies DE 4.3b and 4.3c would reduce impacts related to vector activity to a less-than-significant level.	Applicant	Submit Pest and Vector Management Plan. Comply with Kings Mosquito Abatement District regulations.	SPR
		KCPA/DMO	Confirm compliance with Policies DE 4.3b and 4.3c.	SPR
4.8-4 Operation of the dairy facilities could expose people to dairy manure pathogens, potentially causing adverse human health impacts.	4.8-4 <i>None required.</i>  Implementation of Policies DE 1.2c, 1.2d, 1.2f, 3.1a, 3.2b, 3.2c, 4.1a, 4.1b, 4.1c, 6.2f, and 6.4a through 6.4c would reduce the impact of exposure to pathogens to a less-than-significant level.		See Mitigation Measures 4.3-2 through 4.3-9.	
4.8-5 Residual manure remaining at dairy facilities following cessation of manure management facilities operation could expose people to elevated methane and nitrate levels, potentially causing adverse human health impacts.	4.8-5 <i>None required.</i>  Implementation of Policy DE 5.1j will reduce the impacts associated with residual manure to a less-than-significant level.	Applicant	Submit documentation that all residual manure and process water has been removed.	End of operations
		KCPA/DMO	Confirm compliance with Policy DE 5.1j.	
4.8-6 Construction of dairy facility structures over or near improperly abandoned oil or gas wells could result in accumulation of natural gas within the structures, presenting the potential for fire and explosion.	4.8-6 <i>None required.</i>  Implementation of Policies DE 3.5a and 3.5b of the Element will reduce impacts associated with abandoned oil or gas wells to a less-than-significant level.	Applicant	Submit documentation of DOGGR review; verify oil or gas wells within 100 feet of dairy site; close abandoned wells within 300 feet of dairy structures.	SPR
		KCPA/DMO	Confirm compliance with Policies DE 4.3b and 4.3c.	SPR

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Environmental Impact	Mitigation Measures	Responsibility for Compliance	Method for Compliance	Timing of Compliance
<b>Transportation</b>				
4.9-1 Truck and other traffic from new dairy development would be added to County roadways.	4.9-1 <i>The following policy shall be included in the Element:</i>  “Policy DE 3.1g: The Technical Report for new and expanded dairies shall include a Traffic Impact Study (see Component 8 of Appendix J) prepared by a qualified traffic engineer in conformance with guidelines provided by the California Department of Transportation, which demonstrates that the project will not result in degradation of the level of service of adjacent roadways to below Level of Service (LOS) D on County roadways or LOS C on State highways. Additionally, the Traffic Impact Study shall demonstrate that the proposed dairy project will not result in significant safety hazards.  Where the Traffic Impact Study determines that the LOS will be degraded to a LOS E or lower on adjacent roadways, a conditional use permit and additional environmental review focused on traffic related environmental issues will be required before any new dairy development or expansion of an existing dairy may occur.”	Applicant	Submit Traffic Impact Study.	SPR
		KCPA/DMO	Confirm submittal of a Traffic Impact Study and conformance with Policy DE 3.1g standards.	SPR
<b>Public Services and Utilities</b>				
4.10-1 Increases in water consumption.	4.10-1 <i>None required.</i>		NA	
4.10-2 Increase in the amount of storm water runoff.	4.10-2 <i>None required.</i>  Implementation of Policy DE 4.1a and conformance with State Confined Animal Facility regulations would reduce impacts related to runoff to a less-than-significant level.		See Mitigation Measures 4.3-3 through 4.3-5.	
4.10-3 Increases in the demand for police and fire protection, emergency medical response, solid waste collection and disposal services, school facilities, and recreation facilities.	4.10-3 <i>None required.</i>  Implementation of Policy DE 3.6a would reduce the potential for impacts to public services to a less-than-significant level.	Applicant	Demonstrate conformance with Kings County Fire Department standards.	SPR
		KCPA/DMO	Confirm compliance with Policy DE 3.6a.	SPR
<b>Cultural Resources</b>				
4.11-1 Disturbance or destruction of cultural (historical and archaeological) resources. This would be a significant impact if archaeological resources were to be identified at dairy development sites.	4.11-1 <i>None required.</i>  Implementation of Policies DE 3.1d and 3.1e would reduce the potential for disturbance or destruction of cultural resources to a less-than-significant level.	Applicant	Submit documentation of CHRIS and NAHC review and evaluation of identified known or suspected cultural resources.	SPR
		KCPA/DMO	Confirm compliance with Policies DE 3.1d and 3.1e.	SPR