

**NATIONAL AND STATE RESOURCE CONCERNS & PLANNING CRITERIA FOR  
CONSERVATION PLANNING  
6/01/2015  
AKASKA**

<b>Resource Concern Cause</b>	<b>Description of Concern</b>	<b>Land Use * Required Assessment (shaded)</b>	<b>Resource Concern Component</b>	<b>Planning Criteria</b>		<b>Measurement &amp; Assessment Tools</b>
<p>A resource concern (RC) is an expected degradation of the soil, water, air, plant, or animal resource base to an extent that the sustainability or intended use of the resource is impaired. Because NRCS quantifies or describes resource concerns as part of a comprehensive conservation planning process that includes client objectives, human and energy resources are considered components of the resource base.</p> <p>The "Cause" is the specific reason or threat to the resource that results in the resource concern.</p>			<p>For planning purposes, some resource concerns are divided into components where there is a clear distinction in the causal factors, the mitigating actions, and the anticipated environmental effect.</p>	<p>A planning criterion is a quantitative or qualitative method to assess the existing condition of the natural resources on a site to determine whether additional treatment is needed to address a specific potential resource concern.</p> <p style="text-align: center;"><b>Planning Consideration</b></p> <p>A planning consideration is a description of potential actions or activities that should be considered to help address an identified resource concern and/or to address unintended consequences of an action. Planning considerations are identified for resource concerns when it is not appropriate or technologically feasible to identify specific criteria or a threshold for treatment.</p>		<p>Description of the technology or process for determining if assessment criteria are met.</p>
				<p style="text-align: center;"><b>Screening Level</b></p> <p>Screening level criteria are defined, when appropriate, to identify sites with conditions that have <b>little or no probability of needing additional treatment</b> to address the specific resource concern. If the site meets the screening level criteria, then no other assessment is needed to document that planning criteria are met on this site.</p> <p><b>States can delete or edit nationally identified screening criteria to address localized conditions.</b></p>	<p style="text-align: center;"><b>Basic Assessment Level</b></p> <p>Basic assessment level criteria are used when a site does not meet screening level criteria, or when no screening level criteria are defined. Assessment levels are also used when formulating and evaluating alternatives.</p> <p><b>National criteria establish the minimum for all sites. States may add state-specific criteria to address local conditions.</b></p>	

**SOIL**

<p><b>- 1 SOIL EROSION - Sheet, rill, &amp; wind erosion</b></p>	<p>Detachment and transportation of soil particles caused by rainfall runoff/splash, irrigation runoff or wind that degrades soil quality</p>	<ul style="list-style-type: none"> <li>Crop*</li> </ul>	Sheet and Rill	<p>Perennial ground cover &gt; 90% AND Perennial ground cover makes up at least 80% of the rotation AND Slope &lt; 8% AND Low residue crop years &gt;30% residue</p>	Water erosion rate ≤ T	<b>RUSLE2</b>
			Wind	<p>OR  Continuous high residue no-till crop AND Slope &lt; 8%</p>	Wind erosion rate ≤ T	<b>WEPS</b>
			Irrigation-Induced	<p><b>FURROW IRRIGATED:</b> <b>Contact Area Engineer</b></p>	Water erosion rate ≤ T	<b>SISL</b>
		<ul style="list-style-type: none"> <li>Forest*</li> </ul>	Sheet and Rill	<p>Soil surface organic residue cover &gt; 80% (typical for forest except following a fire)</p>	<p>Site is stable and without visible signs of erosion</p>	<p>Visual Inspection</p>
			Wind			
		<ul style="list-style-type: none"> <li>Pasture*</li> </ul>	Sheet and Rill	<p><b>Must evaluate</b></p>	<p>PCS erosion rating ≥4 <b>AND</b> Erosion ≤ T</p>	<p><b>Pasture Condition Scoresheet RUSLE2 (if sheet/rill) WEPS (if wind)</b></p>
			Wind			
		<ul style="list-style-type: none"> <li>Range*</li> </ul>	Sheet and Rill	<p><b>Must evaluate</b></p>	<p>RHA - soil site stability - slight to moderate or less <b>AND</b> Rangeland Trend is positive</p>	<p><b>RHA - Rangeland Health Assessment  Rangeland Trend Worksheet</b></p>
			Wind			
		<ul style="list-style-type: none"> <li>Developed Land*</li> <li>Farmsteads*</li> <li>Associated Ag Land*</li> </ul>	Sheet and Rill	<p>Permanent ground cover &gt; 90% and slope &lt; 8%</p>	<p>Water erosion rate ≤ T</p>	<p><b>RUSLE2 Visual assessment</b></p>
Wind	<p>Wind erosion rate ≤ T</p>		<b>WEPS Visual assessment</b>			

<p><b>- 2 SOIL EROSION – Concentrated flow erosion</b></p>	<p>Untreated classic gullies may enlarge progressively by head cutting and/or lateral widening. Ephemeral gullies occur in the same flow area and are obscured by tillage. This includes concentrated flow erosion caused by runoff from rainfall, snowmelt or irrigation water.</p>	<ul style="list-style-type: none"> <li>Crop*</li> </ul>	Ephemeral Gullies	Ephemeral gullies are not apparent after critical erosion period	Conservation practices and management are in place to prevent or control ephemeral gullies	Field measurements / Observations  <b>Soil Loss Computation Worksheet</b>
			Classic Gullies	Classic gullies are not present or not actively eroding	Classic gully management is adequate to stop the progression of head cutting and widening and offsite impacts are minimized by vegetation and/or structures	Field measurements/Observations  <b>Soil Loss Computation Worksheet</b>
		<ul style="list-style-type: none"> <li>Forest*</li> </ul>	Classic Gullies	Classic gullies are not present or not actively eroding	Classic gully management is adequate to stop the progression of head cutting and widening and offsite impacts are minimized by vegetation and/or structures	Field measurements / Observations (forest)
		<ul style="list-style-type: none"> <li>Pasture*</li> </ul>	Classic Gullies	<b>Must evaluate</b>	PCS erosion rating $\geq 4$ AND Classic gully management is adequate to stop the progression of head cutting and widening and offsite impacts are minimized by vegetation and/or structures	<b>Pasture Condition Scoresheet</b>
		<ul style="list-style-type: none"> <li>Range*</li> </ul>	Classic Gullies	<b>Must evaluate</b>	RHA - soil site stability - slight to moderate or less AND Rangeland Trend is positive AND Classic gully management is adequate to stop the progression of head cutting and widening and offsite impacts are minimized by vegetation and/or structures	<b>RHA - Rangeland Health Assessment</b>  <b>Rangeland Trend Worksheet</b>
		<ul style="list-style-type: none"> <li>Farmsteads*</li> <li>Developed Land*</li> <li>Associated Ag Land</li> <li>Designated Protected Areas*</li> <li>Other Rural Land*</li> </ul>	Classic Gullies	Classic gullies are not present or not actively eroding	Classic gully management is adequate to stop the progression of head cutting and widening and are offsite impacts are minimized by vegetation and/or structures	Field measurements / Observations

<p><b>- 3 SOIL EROSION– Excessive bank erosion from streams shorelines or water conveyance channels</b></p>	<p>Sediment from banks or shorelines threatens to degrade water quality and limit use for intended purposes</p>	<ul style="list-style-type: none"> <li>• Crop*</li> <li>• Forest*</li> <li>• Range*</li> <li>• Developed Land*</li> <li>• Associated Ag Land*</li> <li>• Designated Protected Area*</li> <li>• Water*</li> <li>• Other Rural Land*</li> </ul>		<p>No streams or shoreline are on or adjacent to site  <b>OR</b>  No bank erosion from streams, shorelines or conveyance channels present  <b>OR</b>  Water conveyance is impacted by other jurisdiction out of client’s control.</p>	<p><u>For shorelines and water conveyance channels</u> –  Banks are stable or commensurate with normal geomorphological processes  <b>AND</b>  <u>For streambanks</u> –  SVAP2 bank condition element score <math>\geq 5</math>  <b>OR</b>  If present, bank erosion is caused by upstream land use and beyond the client’s control</p>	<p><b>SVAP2</b>  (Run full SVAP for all intermittent and perennial streams and any conveyances that are Waters of US. For shorelines and other conveyances, use SVAP bank condition element only. Concrete lined conveyances exempt.)</p>
		<ul style="list-style-type: none"> <li>• Pasture*</li> </ul>		<p>No streams or shoreline are on or adjacent to site  <b>OR</b>  No bank erosion from streams, shorelines or conveyance channels present  <b>OR</b>  Water conveyance is impacted by other jurisdiction out of client’s control.</p>	<p><u>For shorelines and water conveyance channels</u> –  Banks stable or commensurate with normal geomorphological processes  <b>AND</b>  <u>For streambanks-</u>  SVAP2 bank condition element score <math>\geq 5</math>  <b>AND</b>  <u>For all water courses-</u>  PCS - streambank / shoreline erosion element score <math>\geq 4</math>  <b>OR</b>  If present, bank erosion is caused by upstream land use and beyond the client’s control</p>	<p><b>SVAP2</b>  (Run full SVAP for all intermittent and perennial streams and any conveyances that are Waters of US. For shorelines and other conveyances, use SVAP bank condition element only. Concrete lined conveyances exempt.)</p> <p><b>PCS - Pasture Condition Score</b></p>

<p><b>- 4</b> <b>SOIL QUALITY DEGRADATION - Subsidence</b></p>	<p>Loss of volume and depth of organic soils due to oxidation caused by above normal microbial activity resulting from excessive water drainage, soil disturbance, or extended drought.</p> <p>This excludes karst / sinkholes issues or depressions caused by underground activities.</p>	<ul style="list-style-type: none"> <li>• Crop</li> <li>• Forest</li> <li>• Pasture</li> <li>• Associated Ag Land</li> <li>• Designated Protected Areas</li> </ul>		<p>Histisol soils are not present <b>OR</b> Histisol soils are not exhibiting Subsidence</p> <p>Permafrost Induced Subsidence</p>	<p>Subsidence is adequately managed to meet client's Objectives</p> <p>Subsidence is adequately managed to meet client's Objectives</p>	<p>Client input / planner Observation</p> <p>Soil map and report</p> <p>Visual and Soil Investigation</p>
<p><b>- 5</b> <b>SOIL QUALITY DEGRADATION – Compaction</b></p>	<p>Management induced soil compaction resulting in decreased rooting depth that reduces plant growth, animal habitat and soil biological activity</p>	<ul style="list-style-type: none"> <li>• Crop*</li> </ul>			<p>Compaction is managed to meet Client's production and management objectives <b>AND</b> Conservation practices and managements are in place to address compaction</p> <p><b>OR</b> Penetrometer &lt;300 psi</p>	<p>Observation of soil and/or plant condition</p> <p>Client input / planner observation</p> <p>Penetrometer or similar tools</p>
		<ul style="list-style-type: none"> <li>• Forest</li> </ul>		<p>Soil compaction is not apparent</p>	<p>Compaction is managed to meet Client's production and management objectives <b>AND</b> Conservation practices and managements are in place to address compaction</p>	<p>Observation of soil and/or plant condition</p> <p>Client input / planner observation</p>
		<ul style="list-style-type: none"> <li>• Associated Ag Land</li> <li>• Designated Protected Area</li> </ul>		<p>Soil compaction is not apparent <b>AND</b> Activities do not cause soil compaction problems</p>	<p>Compaction is managed to meet Client's production and management objectives <b>AND</b> Conservation practices and managements are in place to address compaction</p>	<p>Observation of soil and/or plant condition</p> <p>Client input / planner observation</p>

		<ul style="list-style-type: none"> <li>Pasture*</li> </ul>			PCS – compaction element score $\geq 4$	<b>PCS - Pasture Condition Score</b>
		<ul style="list-style-type: none"> <li>Range</li> </ul>		Soil compaction is not apparent <b>AND</b> Activities do not cause soil compaction problems	RHA - soil site stability - slight to moderate or less <b>OR</b> Compaction is managed to meet Client's production and management objectives	RHA - Rangeland Health Assessment  Observation of soil and/or plant condition
<b>- 6 SOIL QUALITY DEGRADATION – Organic matter depletion</b>	Soil organic matter is not adequate to provide a suitable medium for plant growth, animal habitat, and soil biological activity	<ul style="list-style-type: none"> <li>Crop*</li> </ul>		Perennial ground cover > 90% <b>AND</b> Perennial ground cover makes up at least 80% of the rotation <b>AND</b> Slope < 8% <b>AND</b> Low residue crops do not have residue removed  <b>OR</b> Continuous high residue no till cropland <b>AND</b> Slope < 8%	SCI > 0	<b>RUSLE2 or WEPS</b>
		<ul style="list-style-type: none"> <li>Forest</li> </ul>		Soil organic matter depletion including wood recruitment is not a problem <b>AND</b> Activities do not cause soil organic matter depletion	Ground cover meets state criteria specific to ecological site <b>OR</b> Soil organic matter is managed to meet Client objectives	Client input / planner Observation  ESD
		<ul style="list-style-type: none"> <li>Pasture*</li> </ul>		<b>Must evaluate</b>	SCI > 0  <b>OR</b> PCS - plant cover element score $\geq 4$ <b>AND</b> PCS - plant residue element score $\geq 4$	<b>PCS - Pasture Condition Score or RUSLE2</b>

		<ul style="list-style-type: none"> <li>Range*</li> </ul>		<p><b>Must evaluate</b></p>	<p>RHA - soil site stability - slight to moderate or less  <b>AND</b>  RHA – biotic integrity attribute rating - slight to moderate departure or less    <b>OR</b>  Rangeland Planned Trend is positive</p>	<p><b>RHA - Rangeland Health Assessment</b></p> <p><b>Rangeland Trend Worksheet</b></p>
<p><b>- 7 SOIL QUALITY DEGRADATION – Concentration of salts or other chemicals</b></p>	<p>Concentration of salts leading to salinity and/or sodicity reducing productivity or limiting desired use</p> <p>Concentrations of other chemicals impacting productivity or limiting desired use</p>	<ul style="list-style-type: none"> <li>Crop</li> <li>Pasture</li> <li>Range</li> <li>Associated Ag Land</li> <li>Farmsteads</li> </ul>		<p>Activities do not cause salinity/sodicity problems  <b>AND</b>  No visible signs of soil contamination such as white or brown-black crusting on soils, visible crop stress, poor growth.</p> <p>Irrigation Induced salt buildup under high tunnels</p>	<p>Conservation practices and management are in place to mitigate on-site effects</p> <p>Flush Area of build up.</p>	<p>Soil diagnostic evaluations</p> <p>Soil survey, visual observations</p>

**WATER**

<p><b>- 8 EXCESS WATER – Ponding, flooding, seasonal high water table, seeps, and drifted snow</b></p>	<p>Surface water or poor subsurface drainage restricts land use and management goals. Wind-blown snow accumulates around and over surface structures, restricting access to humans and animals.</p>	<ul style="list-style-type: none"> <li>Crop</li> <li>Forest</li> <li>Farmsteads</li> <li>Pasture</li> <li>Range</li> <li>Developed Land</li> <li>Designated Protected Area</li> <li>Other Rural Land</li> </ul>	Ponding and Flooding	<p>Ponding and flooding is not a problem  <b>OR</b>  Activities do not cause ponding/flooding problems</p>	<p>Excess water is managed to meet Client’s objectives  <b>AND</b>  Conservation practices are designed to meet wetland policy.</p>	<p>Client input / planner Observation</p> <p>Wetland determination</p>
			Seasonal High Water Table	<p>Seasonal high water table does not cause a problem</p>		
			Seeps	<p>Excess water from seeps does not cause a problem</p>		
			Drifted Snow	<p>Drifted snow does not cause a problem</p>		

		<ul style="list-style-type: none"> <li>Associated Ag Land* (where wetlands exist)</li> </ul>	Ponding and Flooding <hr/> Seasonal High Water Table <hr/> Seeps <hr/> Drifted Snow	Ponding and flooding is not a problem <b>OR</b> Activities do not cause ponding/flooding problems <hr/> Seasonal high water table does not cause a problem <hr/> Excess water from seeps does not cause a problem <hr/> Drifted snow does not cause a problem	Excess water is managed to meet Client's objectives <b>AND</b> Conservation practices are designed to meet wetland policy.	Client input / planner Observation  Wetland determination
<b>- 9 INSUFFICIENT WATER – Inefficient moisture management</b>	Natural precipitation is not optimally managed to support desired land use goals or ecological processes	<ul style="list-style-type: none"> <li>Crop Land</li> <li>Developed Land</li> <li>Forest</li> <li>Associated Ag Land</li> </ul>		Moisture Management is not a Problem <b>AND</b> Activities do not cause inefficient moisture management	Runoff and evapotranspiration levels are minimized to meet Client's management objectives <b>AND</b> Conservation practices and management are in place to	Client input / planner observation
		<ul style="list-style-type: none"> <li>Range*</li> </ul>		<b>Must evaluate</b>	RHA - hydrologic function attributes slight to moderate or less	<b>RHA - Rangeland Health Assessment</b>
		<ul style="list-style-type: none"> <li>Pasture*</li> </ul>		<b>Must evaluate</b>	PCS – compaction element score $\geq 4$ <b>AND</b> PCS - plant cover element score $\geq 4$	<b>PCS - Pasture Condition Score</b>

<p><b>- 10 INSUFFICIENT WATER – Inefficient use of irrigation water</b></p>	<p>Irrigation water is not stored, delivered, scheduled and/or applied efficiently</p> <p>Aquifer or surface water withdrawals threaten sustained availability of ground or surface water</p> <p>Available irrigation water supplies have been reduced due to aquifer depletion, competition, regulation and/or drought</p>	<ul style="list-style-type: none"> <li>All* (where irrigation is used)</li> </ul>		<p>PLU is not irrigated</p>	<p>For the PRESENT CONDITION (existing system), Alaska Irrigation Water Management Planning Spreadsheet</p> <p>For the AFTER CONDITION, Alaska Irrigation Water Management Planning Spreadsheet</p>	<p><b>AIWMP (spreadsheet)</b></p>
<p><b>- 11 WATER QUALITY DEGRADATION – Excess nutrients in surface and ground waters</b></p>	<p>Nutrients - organic and inorganic - are transported to receiving waters through surface runoff and/or leaching into shallow ground waters in quantities</p>	<ul style="list-style-type: none"> <li>Crop*</li> </ul>	<p>Excess nutrients in surface water</p> <hr/> <p>Excess nutrients in groundwater</p>	<p>Organic or inorganic nutrients are not applied <b>AND</b> PLU is not grazed</p>	<p>Nutrient and amendment applications are based on soil tests and nutrient budgets for realistic yields <b>AND</b> Conservation practices and managements are in place to minimize offsite impacts (including consideration for nutrients from direct deposit)to surface and/or groundwater <b>AND</b> Address Alaska Nutrient Management Tech Note 16 and Phosphorus Index rating</p>	<p>Client input / planner observation</p> <p><b>Nutrient budget</b></p> <p><b>Nutrient Management Plan based on Tech Note 16 and address PI ratings that are high.</b></p>
		<ul style="list-style-type: none"> <li>Pasture*</li> </ul>	<p>Excess nutrients in surface water</p> <hr/> <p>Excess nutrients in groundwater</p>	<p><b>Must evaluate</b></p>	<p>PCS - streambank / shoreline erosion element score <math>\geq 4</math> <b>AND</b> PCS - livestock concentration areas element score <math>\geq 4</math> <b>AND</b> Nutrients are applied and based on a soil test, tissue tests or nutrient budget with consideration for nutrients from direct deposition.</p>	<p><b>PCS – Pasture Condition Score</b></p> <p><b>Nutrient budget</b></p>

		<ul style="list-style-type: none"> <li>• Developed Land***</li> <li>• Other Rural Land***</li> <li>• Designated Protected Area***</li> <li>• Water***</li> </ul>	<p>Excess nutrients in surface water</p> <hr/> <p>Excess nutrients in groundwater</p>	<p>Organic or inorganic nutrients are not Applied</p> <p><b>AND</b></p> <p>PLU is not grazed</p> <p><b>AND</b></p> <p>There are no confined livestock areas</p>	<p>Nutrients if applied, are based on a soil test and nutrient budget</p> <p><b>AND</b></p> <p>Conservation practices and managements are in place to minimize offsite impacts to surface and/or groundwater</p>	<p><b>Nutrient budget</b></p> <p>Client input / planner observation</p>
		<ul style="list-style-type: none"> <li>• Forest***</li> <li>• Range***</li> </ul> <p>***Required on landuse when adjacent to 303d-listed for nutrients)</p>	<p>Excess nutrients in surface water</p> <hr/> <p>Excess nutrients in groundwater</p>	<p>Organic or inorganic nutrients are not applied</p> <p><b>AND</b></p> <p>PLU is not grazed</p> <p><b>AND</b></p> <p>There are no confined livestock areas</p>	<p>Nutrients if applied, are based on a soil test and nutrient budget with consideration for nutrients from direct deposition.</p> <p><b>AND</b></p> <p>Conservation practices and managements are in place to minimize offsite impacts to surface and/or groundwater</p>	<p><b>Nutrient budget</b></p> <p>Client input / planner observation</p>
		<ul style="list-style-type: none"> <li>• Farmsteads*</li> <li>• Associated Ag Land* (where nutrients applied/stored)</li> </ul>	<p>Excess nutrients in surface water</p> <hr/> <p>Excess nutrients in groundwater</p>	<p>Organic or inorganic nutrients are not applied</p> <p><b>AND</b></p> <p>PLU is not grazed</p> <p><b>AND</b></p> <p>There are no confined livestock areas</p>	<p>Conservation practices and managements are in place to minimize offsite impacts</p> <p><b>AND</b></p> <p>Surface and ground waters are protected from contamination due to runoff and leaching from storage sites, spill and other concentrated sources</p>	<p>Client input / planner observation</p>
<p><b>- 12 WATER QUALITY DEGRADATION – Pesticides transported to surface and ground waters</b></p>	<p>Pest control chemicals are transported to receiving waters in quantities that degrade water quality and limit use for intended purposes</p>	<ul style="list-style-type: none"> <li>• All*</li> </ul>	<p>Pesticides transported to surface water</p> <hr/> <p>Pesticides transported to groundwater</p>	<p>Pest control chemicals are not applied</p> <p><b>AND</b></p> <p>Pest control chemicals are not stored, mixed or handled on-site.</p>	<p>Pesticides are stored, handled, disposed and managed to prevent runoff, spills, leaks and leaching</p> <p><b>AND</b></p> <p>Conservation practices and management are in place to minimize offsite impacts to surface and/or groundwater for pesticides with an Intermediate or greater hazard rating in WinPST</p>	<p>Client input / planner observation</p> <p><b>WinPST</b></p>

<p><b>- 13 WATER QUALITY DEGRADATION – Excess pathogens and chemicals from manure, bio-solids or compost applications</b></p>	<p>Pathogens, pharmaceuticals, and other chemicals carried by land applied soil amendments are transported to receiving waters in quantities that degrade water quality and limit use for intended purposes.</p> <p>This resource concern also includes the off-site transport of leachate and runoff from compost or other organic materials of animal origin.</p>	<ul style="list-style-type: none"> <li>• Crop*</li> <li>• Farmsteads*</li> <li>• Associated Ag Land* (where sources applied/stored)</li> <li>• Pasture*</li> </ul>	<p>Pathogens and chemicals from manure, bio-solids, or compost applications transported to surface water</p>	<p>Potential sources of pathogens or pharmaceuticals are not applied on the land or stored on site. Sources include:</p> <p>Manure Biosolids Compost Wastewater Rinsewater Cull piles Silage leachate Dead carcasses</p>	<p>Organic materials are applied, stored, and/or handled to mitigate negative impacts to surface and/or ground water sources</p>	<p>Client input / planner Observation</p> <p>Address Alaska Nutrient Management Tech Note 16 and Phosphorus Index rating</p> <p>AFO/CAFO site assessment</p>
		<ul style="list-style-type: none"> <li>• Forest***</li> <li>• Range***</li> <li>• Developed Land***</li> <li>• Other Rural Land***</li> <li>• Designated Protected Area***</li> <li>• Water***</li> </ul> <p>***Required on landuse when adjacent to 303d-listed for pathogens)</p>	<p>Pathogens and chemicals from manure, bio-solids, or compost applications transported to surface water</p>	<p>Potential sources of pathogens or pharmaceuticals are not applied on the land or stored on site. Sources include:</p> <p>Manure Biosolids Compost Wastewater Rinsewater Cull piles Silage leachate Dead carcasses</p>	<p>Organic materials are applied, stored, and/or handled to mitigate negative impacts to surface and/or groundwater sources</p>	<p>Client input / planner observation</p>

<p><b>- 14 WATER QUALITY DEGRADATION – Excessive salts in surface and ground waters</b></p>	<p>Irrigation or rainfall runoff transports salts to receiving water in quantities that degrade water quality and limit use for intended purposes</p>	<ul style="list-style-type: none"> <li>All</li> </ul>	<p>Excessive salts in surface waters</p> <hr/> <p>Excessive salts in groundwater</p>	<p>Salt concentration is not a limiting factor to beneficial use <b>AND</b> Irrigation is not used to “flush” salts from surface soils.</p>	<p>Salt concentrations are managed to mitigate off-site transport to surface or ground waters <b>OR</b> Conservation practices and management are in place to mitigate off-site transport to surface or ground water.</p>	<p>Client input / planner Observation</p>
<p><b>- 15 WATER QUALITY DEGRADATION – Petroleum, heavy metals and other pollutants transported to receiving waters</b></p>	<p>Heavy metals, petroleum and other pollutants are transported to receiving water sources in quantities that degrade water quality and limit</p>	<ul style="list-style-type: none"> <li>All*** ***Required on landuse when adjacent to 303d-listed for oil/grease or heavy metals)</li> </ul>	<p>Petroleum, heavy metals, and other pollutants transported to surface water</p> <hr/> <p>Petroleum, heavy metals, and other pollutants transported to groundwater</p>	<p>Activities do not present the potential for contamination <b>AND</b> No petroleum products stored, handled, transferred on-site or near wellheads <b>AND</b> No irrigation pumps using petroleum products adjacent to surface waters</p>	<p>Petroleum, heavy metals or other potential pollutants are stored and handled to avoid runoff or leaching <b>AND</b> Conservation practices and management are in place to mitigate off-site transport to surface or ground water.</p>	<p>Client input / planner observation</p>
<p><b>- 16 WATER QUALITY DEGRADATION – Excessive sediment in surface waters</b></p>	<p>Off-site transport of sediment from sheet, rill, gully, roads, and wind erosion into surface water that threatens to degrade surface water quality and limit use for intended purposes</p>	<ul style="list-style-type: none"> <li>Crop*</li> </ul>		<p>Streams or shoreline are not on or adjacent to site <b>AND</b> Classic gullies are not present <b>AND (1 and 2 below)</b></p> <p>1) <u>Meets criteria for wind and sheet and rill erosion::</u> Perennial ground cover &gt; 90% <b>AND</b> Perennial ground cover makes up at least 80% of the rotation <b>AND</b> Slope &lt; 8% <b>AND</b> Low residue crop years &gt;30% residue</p> <p><b>OR</b></p> <p>Continuous high residue no-till crop <b>AND</b> Slope &lt; 8%</p> <p>2) <u>IF IRRIGATED:</u> Contact Area Engineer</p>	<p>Upslope treatment and buffer practices address concentrated flows to water bodies <b>AND</b> SVAP2 - bank condition ≥ 5 <b>AND</b> SVAP2 - riparian area quality element score ≥ 5 <b>AND</b> SVAP2 - riparian area quantity element score ≥ 5 <b>AND</b> Livestock and vehicle water crossings are stable <b>AND</b> Water erosion rate ≤ T <b>AND</b> Wind erosion rate ≤ T <b>AND</b> No single year in rotation exceeds 1 ton (RUSLE2 sediment delivery); or 1 ton (SISL) unless a filter strip or sediment basin is used</p> <p>(If screening criteria met for any soil erosion components (wind, sheet and rill, gully) then assume they meet corresponding assessment criteria above – meet T)</p>	<p><b>RUSLE2 or WEPS (if sheet/rill/wind)</b></p> <p>Client input / planner observation</p> <p><b>SVAP2 (if streams present)</b></p> <p><b>SISL (if furrow irrigated)</b></p>

<ul style="list-style-type: none"> <li>• Forest*</li> </ul>		<p>There are no untreated sources of erosion (including roads)  <b>AND</b>  Streams or shoreline are not on or adjacent to site</p>	<p>Upslope treatment and buffer practices address concentrated flows to water bodies  <b>AND</b>  Heavy use areas, including roads, are stable or designed to minimize sediment delivery to stream courses  <b>AND</b>  SVAP2 - bank condition <math>\geq 5</math>  <b>AND</b>  SVAP2 - riparian area quality element score <math>\geq 5</math>  <b>AND</b>  SVAP2 - riparian area quantity element score <math>\geq 5</math></p>	<p>Client input / planner observation   <b>SVAP2</b></p>
<ul style="list-style-type: none"> <li>• Pasture*</li> </ul>		<p>Perennial ground cover <math>&gt; 90\%</math>  <b>AND</b>  Perennial ground cover makes up at least 80% of the rotation  <b>AND</b>  Slope <math>&lt; 8\%</math>  <b>AND</b>  Low residue crop years <math>&gt;30\%</math> residue  <b>AND</b>  There are no untreated sources of erosion</p>	<p>Upslope treatment and buffer practices address concentrated flows to water bodies  <b>AND</b>  SVAP2 - bank condition <math>\geq 5</math>  <b>AND</b>  SVAP2 - riparian area quality element score <math>\geq 5</math>  <b>AND</b>  SVAP2 - riparian area quantity element score <math>\geq 5</math>  <b>AND</b>  Livestock and vehicle water crossings are stable  <b>AND</b>  Water erosion rate <math>\leq T</math>  <b>AND</b>  Wind erosion rate <math>\leq T</math>  <b>AND</b>  PCS erosion rating <math>\geq 4</math></p>	<p><b>Pasture Condition Scoresheet</b>   <b>SVAP2</b>   AFO/CAFO site assessment   <b>WEPS (if wind)</b>  <b>RUSLE 2 (if sheet/rill)</b></p>

		<ul style="list-style-type: none"> <li>Range*</li> </ul>		<p>There are no untreated sources of erosion  <b>AND</b>  Streams or shoreline are not on or adjacent to site</p>	<p>RHA - hydrologic function attribute - slight to moderate or less  <b>AND</b>  RHA- Soil site stability -<u>slight to moderate or less</u>  <b>AND</b>  SVAP2 - bank condition <math>\geq 5</math>  <b>AND</b>  SVAP2 - riparian area quality element score <math>\geq 5</math>  <b>AND</b>  SVAP2 - riparian area quantity element score <math>\geq 5</math>  <b>AND</b>  Livestock and vehicle water crossings are stable</p>	<p><b>RHA - Rangeland Health Assessment</b></p> <p><b>SVAP2</b></p> <p>AFO/CAFO site assessment</p>
		<ul style="list-style-type: none"> <li>Developed Land*</li> <li>Farmsteads*</li> </ul>		<p>There are no untreated sources of erosion  <b>AND</b>  Streams or shoreline are not on or adjacent to site</p>	<p>Upslope treatment and buffer practices address concentrated flows to water bodies  <b>AND</b>  Heavy use areas, including roads, are stable or designed to minimize sediment delivery to stream courses  <b>AND</b>  SVAP2 - bank condition <math>\geq 5</math>  <b>AND</b>  SVAP2 - riparian area quality element score <math>\geq 5</math>  <b>AND</b>  SVAP2 - riparian area quantity element score <math>\geq 5</math></p>	<p><b>SVAP2</b></p> <p>AFO/CAFO site assessment</p>
		<ul style="list-style-type: none"> <li>Other Rural Land</li> <li>Associated Ag Land</li> <li>Designated Protected Area</li> <li>Water</li> </ul>		<p>There are no untreated sources of erosion  <b>AND</b>  Streams or shoreline are not on or adjacent to site</p>	<p>Upslope treatment and buffer practices address concentrated flows to water bodies  <b>AND</b>  Heavy use areas, including roads, are stable or designed to minimize sediment delivery to stream courses  <b>AND</b>  SVAP2 - bank condition <math>\geq 5</math>  <b>AND</b>  SVAP2 - riparian area quality element score <math>\geq 5</math>  <b>AND</b>  SVAP2 - riparian area quantity element score <math>\geq 5</math></p>	<p>Client input / planner observation</p> <p><b>SVAP2</b></p>

<p><b>- 17 WATER QUALITY DEGRADATION – Elevated water temperature</b></p>	<p>Surface water temperatures exceed State/Federal standards and/or limit use for intended purposes</p>	<ul style="list-style-type: none"> <li>• Crop***</li> <li>• Forest***</li> <li>• Pasture***</li> <li>• Range***</li> <li>• Developed Land***</li> <li>• Associated Ag Land***</li> <li>• Designated Protected Area***</li> <li>• Water***</li> <li>• Other Rural Land***</li> <li>• Farmsteads***</li> </ul> <p>***Required on all landuses adjacent to 303d-listed for temperature</p>		<p>Water courses on or adjacent to the site are not designated by a State Agency as a temperature impairment <b>OR</b> Water course temperature impacts are beyond the client’s control and client is not contributing to temperature problem</p>	<p>SVAP2 - riparian area quality element score <math>\geq 5</math> <b>AND</b> SVAP2 - riparian area quantity element score <math>\geq 5</math> <b>AND</b> SVAP2 - canopy cover element score <math>\geq 6</math></p> <p><b>OR</b></p> <p>Existing conservation practices are in place to address water temperature</p>	<p>Client input / planner observation</p> <p><b>SVAP2</b></p>
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**PLANT**

<p><b>- 18 DEGRADED PLANT CONDITION – Undesirable plant productivity and health</b></p>	<p>Plant productivity, vigor and/or quality negatively impacts other resources or does not meet yield potential due to improper fertility, management or plants not adapted to site</p> <p>This includes addressing pollinators and beneficial insects.</p>	<ul style="list-style-type: none"> <li>• Crop</li> </ul>		<p>Plant production and health is not a client concern  <b>OR</b>            Pollinators and beneficial insects are not a client objective</p>	<p>Plants are adapted to the site, meet 5-yr county average production goals  <b>AND</b>            do not negatively impact other resources  <b>AND</b>            Plant damage from wind erosion is below Crop Damage Tolerance levels</p> <p><b>OR</b></p> <p>Plant productivity is managed for pollinators and/or beneficial insects as a client objective</p>	<p>Client input / planner observation</p> <p>Crop Tolerance Table</p>
		<ul style="list-style-type: none"> <li>• Farmsteads</li> <li>• Developed Land</li> <li>• Designated Protected Area</li> <li>• Associated Ag Land</li> <li>• Other Rural Land</li> </ul>		<p>Plant production and health is not a client concern  <b>OR</b>            Pollinators and beneficial insects are not a client objective</p>	<p>Plants are adapted to the site, meet realistic production goals  <b>AND</b>            do not negatively impact other resources</p> <p>OR</p> <p><b>Plant productivity is managed for pollinators and/or beneficial insects as a client objective</b></p>	<p>Client input / planner observation</p>
		<ul style="list-style-type: none"> <li>• Range*</li> </ul>			<p>Vegetation meet similarity index of 60 or greater for desired plant community and has a positive trend  <b>AND</b>            RHA – biotic integrity attribute rating - slight to moderate departure or less</p> <p>OR</p> <p><b>Plant productivity is managed for pollinators and/or beneficial insects as a client objective</b></p>	<p><b>RHA - Rangeland Health Assessment</b></p> <p><b>Rangeland Trend Worksheet</b></p> <p><b>Similarity Index Worksheet</b></p> <p><b>ESD</b></p>

		<ul style="list-style-type: none"> <li>Pasture*</li> </ul>			<p>PCS - desirable plants element score <math>\geq 3</math>  <b>AND</b>  PCS - plant cover element score <math>\geq 4</math>  <b>AND</b>  PCS - plant vigor element score <math>\geq 4</math>  <b>AND</b>  <b>PCS total <math>\geq 30</math></b>  <b>AND</b>  Plants are adapted to the site, meet production goals and do not negatively impact other resources</p> <p><b>OR</b></p> <p><b>Plant productivity is managed for pollinators and/or beneficial insects as a client objective</b></p>	<p><b>PCS - Pasture Condition Score</b></p>
		<ul style="list-style-type: none"> <li>Forest</li> </ul>		<p>Plant production and health is not a client concern  <b>OR</b>  Pollinators and beneficial insects are not a client objective</p>	<p>Forest species are adapted and best suited to the site  <b>AND</b>  Futured desired condition is in the range of the developed ESD  <b>AND</b>  Composition and stocking rate meets the Client's objectives and production goals</p> <p><b>OR</b></p> <p><b>Plant productivity is managed for pollinators and/or beneficial insects as a client objective</b></p>	<p>Forest inventory plots and transects forms  ESD</p>

<p><b>- 19 DEGRADED PLANT CONDITION – Inadequate structure and composition</b></p>	<p>Plant communities have insufficient composition and structure to achieve ecological functions and management objectives</p> <p>This includes degradation of wetland habitat, targeted ecosystems, or unique plant communities.</p>	<ul style="list-style-type: none"> <li>Forest*</li> </ul>	<p>Plant communities support the intended land use and desired ecological functions</p>	<p>Plant communities contain adequate diversity, composition and structure to support desired ecological functions</p> <p>AND</p> <p>Conservation practices and management are in place to support Forest Plan narrative assessment</p>	<p>Ecological Site Descriptions</p> <p>Narrative assessment on forest land</p>
		<ul style="list-style-type: none"> <li>Pasture*</li> </ul>	<p>Plant communities support the intended land use and desired ecological functions</p>	<p>Plant communities contain adequate diversity, composition and structure to support desired ecological functions</p> <p>AND</p> <p>PCS - desirable plants element score <math>\geq 3</math></p> <p>AND</p> <p>PCS - plant cover element score <math>\geq 4</math></p> <p>AND</p> <p>PCS - plant vigor element score <math>\geq 4</math></p>	<p><b>PCS – Pasture Condition Score</b></p>

	<ul style="list-style-type: none"> <li>• Range*</li> </ul>		<p>Plant communities contain adequate diversity, composition and structure to support desired ecological functions</p> <p><b>AND</b></p> <p>RHA – biotic integrity attribute rating slight to moderate departure or less</p> <p><b>AND</b></p> <p>RHA hydrologic function attributes slight to moderate or less</p> <p><b>AND</b></p> <p>RHA site stability attribute slight to moderate or less</p> <p><b>AND</b></p> <p>Vegetation meets similarity index of 60 or greater for desired plant community and has a positive trend</p>	<p>Ecological Site Descriptions</p> <p><b>RHA - Rangeland Health Assessment</b></p> <p><b>Rangeland Trend Worksheet</b></p> <p><b>Similarity Index Worksheet</b></p>
	<ul style="list-style-type: none"> <li>• Designated Protected Area</li> <li>• Associated Ag Land</li> <li>• Water</li> </ul>	<p>Plant communities support the intended land use and desired ecological functions</p>	<p>Plant communities contain adequate diversity, composition and structure to support desired ecological functions</p>	<p>Ecological Site Descriptions</p>

<p><b>- 20 DEGRADED PLANT CONDITION – Excessive plant pest pressure</b></p>	<p>Excessive pest damage to plants including that from undesired plants, diseases, animals, soil borne pathogens, and nematodes</p> <p>This concern addresses invasive plant, animal and insect species</p>	<ul style="list-style-type: none"> <li>• Crop</li> <li>• Farmsteads</li> <li>• Developed Land</li> <li>• Associated Ag Land</li> <li>• Designated Protected Area</li> <li>• Water</li> <li>• Other Rural Land</li> </ul>	Plant productivity is not limited from pest pressure	<p>Pest damage to plants are below economic or environmental thresholds or client-identified criteria</p> <p><b>AND</b></p> <p>Plant pests, including noxious and invasive species are managed to meet client objectives and State Law</p>	<p>Client input / planner Observation</p> <p>ESD</p> <p>IPM Plan</p>
		<ul style="list-style-type: none"> <li>• Forest*</li> </ul>	Plant productivity is not limited from pest pressure	<p>Pest damage to plants are below economic or environmental thresholds or client-identified criteria</p> <p><b>AND</b></p> <p>Plant pests, including noxious and invasive species are managed to meet client objectives and State Law</p> <p><b>AND</b></p> <p>Conservation practices and management are in place to support the Forest Plan narrative assessment</p>	<p>Client input / planner Observation</p> <p>ESD</p> <p>Narrative assessment on forest land</p>
		<ul style="list-style-type: none"> <li>• Pasture*</li> </ul>	Plant productivity is not limited from pest pressure	<p>PCS - insect and disease pressure element score <math>\geq 4</math></p> <p><b>AND</b></p> <p>PCS - site adaptation element score <math>\geq 4</math></p>	<b>PCS - Pasture Condition Score</b>
		<ul style="list-style-type: none"> <li>• Range*</li> </ul>	Plant productivity is not limited from pest pressure	<p>Pest damage to plants are below economic or environmental thresholds or client-identified criteria</p> <p><b>AND</b></p> <p>Plant pests, including noxious and invasive species are managed to meet client objectives and State Law</p> <p><b>AND</b></p> <p>RHA – biotic integrity attribute rating slight to moderate departure or less</p>	<b>RHA</b>

<p><b>- 21 DEGRADED PLANT CONDITION– Wildfire hazard, excessive biomass accumulation</b></p>	<p>The kinds and amounts of fuel loadings - plant biomass - create wildfire hazards that pose risks to human safety, structures, plants, animals, and air resources</p>	<ul style="list-style-type: none"> <li>All</li> </ul>		<p>Wildfire hazard is not a concern</p>	<p>Fuel loads and fuel ladders are managed to provide defensible space, to reduce the risk of catastrophic fire, and meet client objectives</p>	<p>Client input / planner Observation  ESD</p>
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**ANIMAL**

<p>- 22  <b>INADEQUATE HABITAT FOR FISH AND WILDLIFE – Habitat degradation</b></p> <p><b>AT LEAST ONE TOOL IDENTIFIED IN RIGHT HAND COLUMN MUST BE USED WHEN WILDLIFE IS A CLIENT OBJECTIVE</b></p>	<p>Quantity, quality or connectivity of food, cover, space, shelter and/or water is inadequate to meet requirements of identified fish, wildlife or invertebrate species</p>	<p>*All with “wildlife” modifier - (Required when Land Use has a wildlife modifier)</p>	<p>Quantity, quality of food is inadequate to meet requirements of identified fish, wildlife or invertebrate species</p> <hr/> <p>Quantity, quality of water is inadequate to meet requirements of identified fish, wildlife or invertebrate species</p> <hr/> <p>Quantity, quality or cover/shelter is inadequate to meet requirements of identified fish, wildlife or invertebrate species</p> <hr/> <p>Habitat continuity and/or space is inadequate to meet requirements of identified fish, wildlife or invertebrate species</p>	<p><b>Must evaluate</b></p>	<p><b>(when surface stream present)</b>  SVAP2 – barriers to movement element score <math>\geq 7</math>  <b>AND</b>  SVAP2 – fish habitat complexity element score <math>\geq 7</math>  <b>AND</b>  SVAP2 – aquatic invertebrate habitat element score <math>\geq 7</math></p> <p><b>OR</b></p> <p>Food, water, space and/or cover is of available quality and extent to support habitat requirements for the species of interest</p> <p><b>AND</b></p> <p>The connectivity of habitat components is adequate to support stable populations of targeted species as determined by NRCS or partner biologist and documented in a trip report</p>	<p><b>SVAP2</b></p> <p>Biologist Narrative assessment</p>
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<p><b>- 23 LIVESTOCK PRODUCTION LIMITATION – Inadequate feed and forage</b></p>	<p>Feed and forage quality or quantity is inadequate for nutritional needs and production goals of the kinds and classes of livestock</p>	<ul style="list-style-type: none"> <li>*All with “grazed” modifier (Applicable when Land Use is grazed)</li> </ul>			<p>Livestock forage, roughage and supplemental nutritional requirements are addressed</p>	<p>Client input / planner observation</p> <p>GRAS - Grassland Resource Analysis System (currently not functional)</p>
<p><b>- 24 LIVESTOCK PRODUCTION LIMITATION – Inadequate livestock shelter</b></p>	<p>Livestock lack adequate shelter from climatic conditions to maintain health or</p>	<ul style="list-style-type: none"> <li>*All with “grazed” modifier (Applicable when Land Use is</li> </ul>			<p>Artificial or natural shelters meets animal health needs and client objectives</p>	<p>Client input / planner observation</p>
<p><b>- 25 LIVESTOCK PRODUCTION LIMITATION – Inadequate livestock water</b></p>	<p>Quantity, quality and/or distribution of drinking water are insufficient to maintain health or production goals for the kinds and classes of livestock</p>	<ul style="list-style-type: none"> <li>*All with “grazed” modifier (Applicable when Land Use is grazed)</li> </ul>			<p>Water of acceptable quality and quantity is adequately distributed to meet animal needs</p>	<p>Client input / planner observation</p> <p>GRAS - Grassland Resource Analysis System - Tool for water distribution (currently not functional)</p>

**ENERGY**

<p><b>- 26 - INEFFICIENT ENERGY USE – Equipment and facilities</b></p>	<p>Inefficient use of energy in the Farm Operation increases dependence on non-renewable energy sources that can be addressed through improved energy efficiency and the use of on-farm renewable energy sources.</p> <p>As an example, this concern addresses inefficient energy use in pumping plants, on-farm processing, drying and storage.</p>	<ul style="list-style-type: none"> <li>All</li> </ul>		<p>Client is not interested in improving equipment and facilities energy efficiency</p>	<p>A USDA approved energy audit been implemented that address equipment and facilities to meet client objectives <b>OR</b> On-farm renewable energy and/or energy conserving practices have been implemented to meet client objectives</p>	<p>Client input / planner observation</p> <p>USDA approved Type 2 On-Farm Energy Audit (minimum criteria established in ANSI/ASABE SG12, July 2009) (e.g. CAP 122</p> <p>NRCS Energy Estimator</p> <p>Conservation on the Farm Checklist</p>
<p><b>- 27 - INEFFICIENT ENERGY USE – Farming/ranching practices and field operations</b></p>	<p>Inefficient use of energy in field operations increases dependence on non-renewable energy sources that can be addressed through improved efficiency and the use of on-farm renewable energy sources.</p>	<ul style="list-style-type: none"> <li>All</li> </ul>		<p>Client is not interested in improving energy use in farm and ranch field operations</p>	<p>A USDA approved energy audit been implemented that address field operations to meet client objectives <b>OR</b> On-farm renewable energy and/or energy conserving practices have been implemented to meet client objectives</p>	<p>Client input / planner observation</p> <p>USDA approved Type 2 On-Farm Energy Audit (minimum criteria established in ANSI/ASABE SG12, July 2009) (e.g. CAP 124</p> <p>NRCS Energy Estimator</p> <p>RUSLE2</p> <p>WEPS</p> <p>Conservation on the Farm Checklist</p>

**AIR**

<p><b>- 28 AIR QUALITY IMPACTS - Emissions of Particulate Matter - PM - and PM Precursors</b></p>	<p>Direct emissions of particulate matter - dust and smoke -, as well as the formation of fine particulate matter in the atmosphere from other agricultural emissions - ammonia, NOx, and VOCs - cause multiple environmental impacts, such as: - The unintended movement of particulate matter - typically dust or smoke - results in safety or nuisance visibility restriction - The unintended movement of particulate matter and/or chemical droplets results in unwanted deposits on surfaces - Increased atmospheric concentrations of particulate matter can impact human and animal health and degrade regional visibility</p>	<ul style="list-style-type: none"> <li>• Crop</li> <li>• Pasture</li> <li>• Range</li> <li>• Forest</li> <li>• Other Rural Land</li> <li>• Associated Ag Land</li> <li>• Designated Protected Areas</li> <li>• Developed Land</li> <li>• Farmsteads</li> </ul> <p><b>All*- Required in non-attainment areas and for wind HEL soils and where public safety/health is impacted</b></p>		<p>Activities are not present that contribute to agricultural source PM or PM precursor emissions PM Producing Activities:</p> <ul style="list-style-type: none"> <li>• Prescribed Burn is conducted</li> <li>• Forest fuel loads are elevated</li> <li>• Travel ways are unpaved or untreated with binding agents</li> <li>• Engines (combustion source)</li> <li>• Tillage</li> <li>• Pesticides are applied</li> <li>• Fertilization (manure /commercial)</li> <li>• CAFO/manure management)</li> </ul> <p><b>AND</b></p> <p>Episodes or complaints of emissions of PM (dust, smoke, exhaust, etc.), or chemical drift have not occurred</p>	<p>PM and PM Precursor emissions are managed to meet client objectives <b>AND</b> Conservation practices are in place to address the identified air quality concerns. <b>AND</b> Cropland wind erosion is ≤ T.</p>	<p>Client input / planner Observation AQAC On-Farm Checklist WEPS WinPST AK DEC Division of Air Quality <a href="http://dec.alaska.gov/air/">http://dec.alaska.gov/air/</a></p>
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<p><b>- 29</b> <b>AIR QUALITY IMPACTS - Emissions of Greenhouse Gases - GHGs -</b></p>	<p>Emissions increase atmospheric concentrations of greenhouse gases.</p>	<ul style="list-style-type: none"> <li>• All</li> </ul>		<p>Activities are not present that produce GHGs emissions GHG Producing Activities:</p> <ul style="list-style-type: none"> <li>• Fertilization (manure/commercial)</li> <li>• CAFO/manure management</li> <li>• Engines (combustion source)</li> <li>• Tillage</li> </ul> <p><b>AND</b> GHGs are not regulated in this planning area</p>	<p>Greenhouse gas emissions are managed to meet client Objectives <b>AND</b> Conservation practices are in place to address the identified air quality concerns.</p>	<p>Client input / planner Observation  AQAC On-Farm Checklist  AK DEC Division of Air Quality <a href="http://dec.alaska.gov/air/">http://dec.alaska.gov/air/</a></p>
<p><b>- 30</b> <b>AIR QUALITY IMPACTS - Emissions of Ozone Precursors</b></p>	<p>Emissions of ozone precursors - NOx and VOCs - resulting in formation of ground- level ozone that cause negative impacts to plants and animals.</p>	<ul style="list-style-type: none"> <li>• All</li> </ul>		<p>Operations are not present that produce ozone or precursor emissions Ozone Producing Activities:</p> <ul style="list-style-type: none"> <li>• Engines (combustion source)</li> <li>• Pesticide application</li> <li>• Burning</li> <li>• CAFO/manure management</li> <li>• Fertilization (manure /commercial)</li> </ul>	<p>Ozone precursor emissions are managed to meet client Objectives <b>AND</b> Conservation practices are in place to address the identified air quality concerns.</p>	<p>Client input / planner Observation  AQAC On-Farm Checklist  AK DEC Division of Air Quality <a href="http://dec.alaska.gov/air/">http://dec.alaska.gov/air/</a></p>
<p><b>- 31</b> <b>AIR QUALITY IMPACTS - Objectionable odors</b></p>	<p>Emissions of odorous compounds - VOCs, ammonia and odorous sulfur compounds - cause nuisance conditions</p>	<ul style="list-style-type: none"> <li>• Crop</li> <li>• Pasture</li> <li>• Other Rural Land</li> </ul>		<p>Activities are not present that contribute to nuisance air quality conditions Nuisance Producing Activities:</p> <ul style="list-style-type: none"> <li>• Pesticide application</li> <li>• CAFO / manure management</li> <li>• Composting is conducted</li> </ul> <p><b>AND</b> Odor sources are not regulated in this planning area <b>AND</b> Episodes or complaints of emissions of PM (dust, smoke, exhaust, etc.), or chemical drift have not occurred</p>	<p>Odors are managed to meet client objectives <b>AND</b> Conservation practices are in place to address the identified air quality concerns.</p>	<p>Client input / planner Observation  AQAC On-Farm Checklist  WinPST  AK DEC Division of Air Quality <a href="http://dec.alaska.gov/air/">http://dec.alaska.gov/air/</a></p>

	<ul style="list-style-type: none"> <li>• Farmsteads*</li> </ul> <p>*Required on facilities with new or modified liquid waste systems</p>		<p>Activities are not present that contribute to nuisance air quality conditions</p> <p>Nuisance Producing Activities:</p> <ul style="list-style-type: none"> <li>• Pesticide application</li> <li>• CAFO / manure management</li> <li>• Composting is conducted</li> </ul> <p><b>AND</b></p> <p>Odor sources are not regulated in this planning area</p> <p><b>AND</b></p> <p>Episodes or complaints of emissions of PM (dust, smoke, exhaust, etc.), or chemical drift have not occurred</p>	<p>Odors are managed to meet client objectives</p> <p><b>AND</b></p> <p>Conservation practices are in place to address the identified air quality concerns. Meets state regulations for odor management and is consistent with state- required Odor Management Plans.</p>	<p>Client input / planner Observation</p> <p>AQAC On-Farm Checklist</p> <p>AK DEC Division of Air Quality  <a href="http://dec.alaska.gov/air/">http://dec.alaska.gov/air/</a></p>
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