

**Environmental Management in Viticulture – Langhorne Creek**

**Best Management Practice for Irrigated Viticulture: Waste Management**

August 2004

Activity, Product or Service	Aspect	Objective	Achieved by Best Management Practice	Indicators	Checklist	
		To meet legal responsibilities	Research legal and regulatory obligations plus Australian Standards from established facility			
<b>Empty &amp; disused chemical containers</b>	Leakage from storage and disposal of empty and disused chemical containers, reduced access to landfill sites	Minimise contamination of land, surface and ground water, and minimise impact on local biodiversity from storage plus reduce disposal to landfill. To have no rejection notices from drumMUSTER	<ol style="list-style-type: none"> <li>Clean and dry containers immediately after use following the requirements of “<b>ChemCert SA Chemical Management</b>” and “<b>drumMUSTER</b>”</li> <li>Store clean containers up side down at a designated site prior to collection.</li> <li>Participate regularly in “drumMUSTER” to dispose of clean dry containers.</li> <li>Develop and use SOP for the secure transport of empty containers.</li> </ol>	SOP in place and in practice Zero returns from drum muster Size of stockpile or age of drums on property (<12 months) Amount put to landfill Waste tracking notes in place Monitoring records to demonstrate IPM in place <b>Others for consideration:</b> Total waste generated. Percentage of waste produced that is re-used/recycled. Amount of waste stockpiled.	Manuals  Facility  Record of programme SOP, records of drums transported	
<b>Oil and grease from machinery and vehicle servicing</b>	Leakage from storage and disposal	Minimise contamination of land, surface and ground water, and minimise impact on local biodiversity from storage and disposal.	<ol style="list-style-type: none"> <li>Develop and use SOP to contain and collect all waste oil and grease from machinery and vehicle servicing.</li> <li>Store wastes in covered and bunded (temporary if appropriate) area.</li> <li>Dispose of waste only to a suitably licensed waste collector.</li> </ol>		SOP  Facility  EPA tracking document	
<b>Toxic solid waste</b>	Leakage from storage and disposal	Minimise contamination of land, surface and ground water, and minimise impact on local biodiversity from storage and disposal.	<ol style="list-style-type: none"> <li>Implement IPM to reduce requirement of toxic chemical.</li> <li>Separate toxic wastes from other wastes.</li> <li>Store in a designated area for solid toxic waste that is not vulnerable to floods and is covered and bunded.</li> <li>Dispose using a EPA licensed contractor or the annual ChemCollect system.</li> </ol>		Plan Property map  Facility  EPA tracking documents	

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<b>Non-toxic solid waste</b>	Leakage from storage and disposal	Minimise contamination of land, surface and ground water, and minimise impact on local biodiversity from storage plus reduce disposal to landfill.	<ol style="list-style-type: none"> <li>1. Implement system to review requirements and reduce need for material that will become solid waste.</li> <li>2. Separate recyclable materials and recycle.</li> <li>3. Store in designated area and prevent spreading of material.</li> <li>4. Implement site-specific disposal system.</li> </ol>		Review system in place Recycle system Storage facility Facility	
<b>Non-toxic liquid (inc washdown water)</b>	Leakage from storage and disposal	Minimise contamination of land, surface and ground water, and minimise impact on local biodiversity from storage and disposal.	<p>Develop site specific disposal system providing for the:</p> <ol style="list-style-type: none"> <li>1. Management of waste water, including rainwater tank overflows and storm water gutters.</li> <li>2. Impervious storage as necessary.</li> <li>3. Separation and disposal of solid and toxic elements with settling pond or similar.</li> <li>4. Disposal/recycle to land without creating water-logging, erosion or affecting sensitive areas identified on property plan.</li> </ol>		Evidence of system	
<b>Toxic liquids</b>	Leakage from storage and disposal	Minimise contamination of land, surface and ground water, and minimise impact on local biodiversity from storage and disposal. Avoid discomfort and inconvenience to local residence.	<p>Develop a site specific system to:</p> <ol style="list-style-type: none"> <li>1. Separate and contain toxic liquid wastes.</li> <li>2. Provide a designated storage area for toxic liquid waste that is covered and banded.</li> <li>3. Dispose of toxic liquid waste by EPA licensed Contractor or the annual ChemCollect system.</li> </ol>		Evidence of system  EPA tracking document	

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<b>Sewage waste</b>	Storage and disposal	Minimise contamination of land, surface and ground water, and minimise impact on local biodiversity from storage and disposal. Avoid discomfort and inconvenience to local residence.	<ol style="list-style-type: none"> <li>1. Develop and use an SOP for all sewage waste to go through a septic system or collected by licensed operator.</li> <li>2. Arrange a regular servicing program for septic tanks.</li> </ol>		Policy document Record of collection  Record of servicing	
<b>Disused treated posts - CCA and Creosote treated timber</b>	Storage and disposal	Minimise contamination of land, surface and ground water, and minimise impact on local biodiversity from storage plus reduce disposal to landfill.	<ol style="list-style-type: none"> <li>1. Sort and separate for recycling and sale.</li> <li>2. Store posts and broken parts of posts in designated area which does not impact on sensitive areas defined in property plan. Consider vulnerability to flooding and leaching.</li> <li>3. Arrange for the sale of used posts under a regular programme.</li> <li>4. Disposal of those parts unsuitable for sale only to land fill with suitable clay lining.</li> <li>5. Do not incinerate.</li> </ol>		Management system - SOP Property plan  Record of sale Land fill records	

Reference Material  
ChemCent SA Chemical Management - Course Manual