

# Surface Water Standard

AGL-HSE-STD-009.3

This standard applies to all surface water resources from which water is extracted and used at AGL controlled sites, and receiving waters to which AGL controlled sites discharge wastewater(s) and stormwater. It covers all activities carried out by AGL employees and contractors, in AGL controlled sites, that:

- Generate wastewaters;
- Have the potential to contaminate stormwater and receiving waters; and
- Result or potentially result in surface water contamination incidents.

The reference numbers given to minimum controls provide a direct linkage between this standard and the Risk and Control Matrix. The Surface Water Methodology AGL-HSE-SDM-009.3 provides further explanation of how to achieve the minimum controls.

RCM Ref	Minimum Controls
<b>GENERAL</b>	
9.3.1.1	<p>Licences, permits or authorisations for:</p> <ul style="list-style-type: none"> <li>• Surface water extraction;</li> <li>• Surface water management; and</li> <li>• Discharges of stormwater and wastewater</li> </ul> <p>must be obtained and adhered to.</p>
9.3.1.2	<p>Discharge of stormwater and wastewater must not put at risks any beneficial uses of the receiving water or cause the water quality objectives applicable to the receiving waters to be exceed unless a mixing zone has been approved or discharge is authorised by the relevant regulatory authority.</p>
9.3.1.3	<p>All reporting and monitoring program results must adhere with licence, permit or authorisation conditions and/or other regulatory reporting requirements.</p>
9.3.1.4	<p>Notices or orders, issued by the regulatory authority, for</p> <ul style="list-style-type: none"> <li>• Surface water extraction;</li> <li>• Surface water management; and</li> <li>• Discharges of stormwater and wastewater</li> </ul> <p>must be complied with and all requirements adhered to.</p>
<b>SURFACE WATER EXTRACTED FOR SUPPLY AND USE</b>	
9.3.1.5	<p>Surface water usage at AGL controlled sites must be monitored and documented, as required.</p>
<b>STORMWATER</b>	
<b>Stormwater Management</b>	

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9.3.1.6	Stormwater must be managed in accordance with relevant codes of practice and guidelines, where prescribed by the regulatory authority.
9.3.1.7	Control measures must be implemented at AGL controlled sites to prevent stormwater from: <ul style="list-style-type: none"> <li>• Becoming contaminated with hazardous substances/materials;</li> <li>• Becoming loaded with sediments and other materials;</li> <li>• Entering the sewer, unless authorised under a trade waste agreement; and</li> <li>• Entering bores and/or being discharged to groundwater, unless authorised by the regulatory authority.</li> </ul>
9.3.1.8	Contaminated stormwater must be captured and treated prior to being reused and/or discharged, as required.
<b>WASTEWATER</b>	
<b>Wastewater Management</b>	
9.3.1.9	AGL controlled sites must develop and implement control measures to manage wastewaters generated by its activities.
9.3.1.10	Wastewaters generated at AGL controlled sites must be managed in accordance with the Waste Management Hierarchy.
9.3.1.11	Wastewater reuse and/or recycling, and its use at AGL controlled sites, must be in accordance with relevant guidelines, as prescribed by the regulatory authority.
<b>Wastewater Discharge - Monitoring</b>	
9.3.1.12	Monitoring must be conducted using methods and protocols approved by the regulatory authority.
9.3.1.13	Sampling and measurement equipment must be calibrated, inspected, tested, and maintained, in accordance with discharge licence conditions and other relevant regulatory requirements.
9.3.1.14	Accredited environmental laboratory services (i.e. certified by National Association of Testing Authorities (NATA) or equivalent accreditation bodies) must be used for analysis of wastewater discharge and receiving water samples.
<b>Wastewater Discharge - Reporting</b>	
9.3.1.15	AGL controlled sites that exceed National Pollutant Inventory (NPI) reporting threshold(s) must report relevant NPI emissions to waters, and associated transfers to waste.
<b>SURFACE WATER CONTAMINATION INCIDENTS</b>	
9.3.1.16	Releases, spills, leaks or loss of containment incidents must be cleaned-up as per requirements prescribed by the regulatory authority, whenever required.
9.3.1.17	Hazards, near misses and incidents resulting in potential or actual contamination of surface water must be reported and investigated using the AGL Incident Management System.

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9.3.1.18	Incidents that result in the contamination of waters must be reported to the regulatory authority, in accordance with the notification requirements established by applicable legislation.
<b>TRAINING AND COMPETENCY</b>	
9.3.1.19	Assessment, clean-up, or remediation of contaminated surface water must be carried out by qualified and experienced professionals.

Version	Date	Reviewed by	Approved by	Date approved	Next Review	Comments
3.0	09/05/2018	HSE Systems Manager	Head of Safety/Head of Environment, Health, Audit and Training	09/05/2018	09/05/2020	Version 3.0