

Appendix G
Addendum to the
Vacuum Sewerage Code of Australia WSA 06-2008

Vacuum Sewerage Code Section reference	WRC requirement
5.3.1 General	Remove references to PVC-U and PVC-M – use PE pipe only
6.6.3 Generator Types	<p>Add the following:</p> <p>In larger stations (>20 l/s), Liquid ring vacuum generators shall not be used. Oil filled vacuum generators are required. For stations < 20 l/s, dry run vacuum generators are preferred.</p>
6.6.9 Air Handling Pipe Material	Any pipe within the Vacuum Station designated for the handling of air or air sewage / water mixture shall be Stainless Steel 316L with wall thickness designed for the application.
6.10 Noise	<p>Add the following:</p> <ul style="list-style-type: none"> - In addition to noise environmental regulations to be met, the noise level in residential areas, measured as the Adjusted Maximum sound pressure level LA10adj, 10mins shall not be greater than the background noise level plus 3 dB(A) at the boundary of vacuum station lot; - In Industrial or Commercial areas it shall not be greater than the background noise level plus 8 dB(A). It will likely be necessary to provide sound attenuation construction within the building, sound rated doors and mufflers on pipes leading to the exterior of the building in order to meet requirements.; and - The developer shall perform noise studies before and after commissioning to demonstrate that requirements have been met.
6.11.2 Biofilters	<p>Add the following:</p> <ul style="list-style-type: none"> - The odour control bed shall be roofed; and - The odour control bed shall have fitted over it an automatic sprinkler system with moisture control, to ensure that

	the bed operates at an operator selectable moisture content
8.3 Alarms (Table 8.1)	<p>Add the following:</p> <ul style="list-style-type: none"> - Vacuum Generator HIGH TEMPERATURE. Provide a high temperature sensor for each of the Vacuum Generators which will both alarm and shut down the unit in the event of the temperature rising to a manufacturer recommended maximum set point.
16.1 Services	<p>Add the following:</p> <ul style="list-style-type: none"> - Tool Kit and Special Tools, as follows: Provide a tool kit with the station containing a range of tools which will allow the operator to perform the duties required to operate and maintain the system. Provide also any specialized tools required for the same purpose.
16.2 Vacuum Station Fixtures	<p>Add the following:</p> <ul style="list-style-type: none"> - Provide a vacuum testing station on the workbench utilising the station vacuum in order to test valves and vacuum equipment after repair. Pipe and valve the test station appropriately.
26.2 Switchboard Installation (Clause 25.6.4.4 Cubicle Labels)	<p>Add the following:</p> <ul style="list-style-type: none"> - Ensure pump labels match with the labelling of the pumps on the floor
28.3 Installation of Pumping and Vacuum Generator Units (Clause 28.3.3 Unit Numbers)	<p>Add the following:</p> <ul style="list-style-type: none"> - Ensure that Unit numbers match with the labelling numbers on the switchboard.
Part 4 Standard Drawings	<p>Chamber series of drawings, VAC 1200, VAC 1201, VAC 1202, VAC 1203, VAC 1204 and VAC 1205:</p> <ul style="list-style-type: none"> - Remove references to brickwork risers in the construction of the collection chambers. Brickwork is not permitted; and - To the vacuum layout series of drawings, VAC 1300 and VAC 1301, add the following: provide an appropriately sized suction line (minimum DN 200), from the Vacuum

	<p>Vessel to the outside of the building for a sucker truck connection. The suction line shall be valved outside the building to permit the draining of the Vacuum Vessel without the operator of the suction truck having to enter the building.</p>
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