

## Anti-Entrapment Compliance Plan for Public Swimming Pools

Please refer to the [Information to Complete Anti-Entrapment Compliance Plan for Public Swimming Pools](https://www.albertahealthservices.ca/assets/wf/eph/wf-eph-info-complete-anti-entrapment-compliance-form.pdf) to help complete this form, available at:

<https://www.albertahealthservices.ca/assets/wf/eph/wf-eph-info-complete-anti-entrapment-compliance-form.pdf>

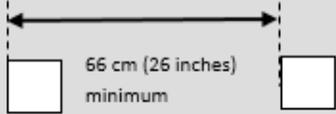
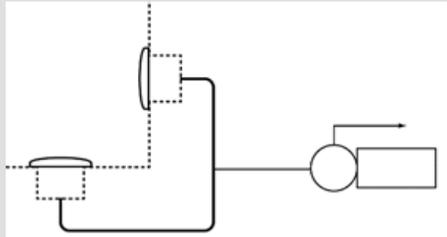
Any reference to Appendices in the form below are located in the Information to Complete Anti-Entrapment Compliance Plan for Public Swimming Pools.

Part I – Facility Information		
Name of Facility:		
Owner / Owner's Agent:		
Site Address:		
City/Municipality:		
Date Assessment Completed (yyyy-Mon-dd):		
Person Conducting Assessment:		
Job Title:	Company:	
Part II – Public Swimming Pool Information		
<b>Pool Location:</b>		
<input type="checkbox"/> Indoor Pool <input type="checkbox"/> Outdoor Pool		
<b>Pool Type:</b>		
<input type="checkbox"/> Swimming Pool <input type="checkbox"/> Wading Pool <input type="checkbox"/> Whirlpool (<4000L) <input type="checkbox"/> Whirlpool (>4000L) <input type="checkbox"/> Waterslide Receiving Pool <input type="checkbox"/> Other _____		
<b>Submerged Suction Outlet Connected To:</b>		
<input type="checkbox"/> Spray Feature <input type="checkbox"/> Hydro-Jet <input type="checkbox"/> Slide <input type="checkbox"/> Recirculation <input type="checkbox"/> Other _____		
Part III – Suction Outlet Entrapment Assessment Information (See Part A of Flowchart)		
Detail	Response	Additional Information
How many pumps does the outlet(s) serve?		If 2 or more pumps are connected to one set of outlets then the maximum system flow rate will be the added flows (combination) of all pumps connected to it.
Pump manufacturer, make, model number, horsepower of pump		If available you may include manufacturer's specifications such as pump curve and manual.
What is the maximum flow rate? Refer to Appendix B for details		Include any photos of flow meter, gauges and devices used for calculation.
How was the maximum flow rate determined? (please circle one) Refer to Appendix B for details	<input type="checkbox"/> Pump method 1 – flow meter <input type="checkbox"/> Pump method 2 – pressure/ vacuum gauge (TDH) <input type="checkbox"/> Maximum pump flow according to the pump curve <input type="checkbox"/> Ultrasonic flowmeter	

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Suction Outlet Entrapment Assessment Information Continued (See Appendix A - Flow Chart)		
Detail	Response	Additional Information
How many suction outlets are connected to the common suction line piped to the pump(s) listed above?		A plumbing diagram should be included to clarify the plumbing of each system.
Suction outlet details  <i>Manufacturer, make, model, maximum flow rating of cover</i>		Include a copy of the certificate of compliance for the suction outlets.
Is the outlet certified to ANSI/APSP-16?	<input type="checkbox"/> Yes <input type="checkbox"/> No	Refer to the manufacturer's website for a certificate of compliance. Include a copy of the certificate of compliance for the suction outlets.
Does each outlet system have a properly sized cover with a flow rating as outlined in Appendix C	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Is the outlet cover within the operating lifespan based on the installation date and marked life?	If Yes, Installation date (yyyy-Mon-dd): _____  Lifespan according to manufacturer: _____  Expiry date (yyyy-Mon-dd): _____	
What type of sump is in use?	<input type="checkbox"/> Manufactured sump <input type="checkbox"/> Field fabricated	All covers are not compliant with all sumps and fittings. Replace with compatible cover and/or create compliant sump per cover manufacturer's instructions. Refer to Appendix D
Does the sump meet the manufacturer's requirements? Refer to Appendix D for details	<input type="checkbox"/> Yes <input type="checkbox"/> No	Include a diagram of the dimensions of the sump. If cover is approved by the manufacturer for sumpless install, please include relevant documentation
How is the outlet cover installed to the sump?	<input type="checkbox"/> Existing frame <input type="checkbox"/> New frame <input type="checkbox"/> Secured directly to the pool basin	Ensure manufacturer's installation requirements are met
If existing frame is in use, is the frame cracked, broken or damaged?	<input type="checkbox"/> Yes <input type="checkbox"/> No	Do not modify the cover or frame (such as drilling new holes) unless specified by the manufacturer. Use manufactures adapter if necessary. If the frame is damaged, it must be replaced.

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Suction Outlet Entrapment Assessment Information Continued (See Appendix A - Flow Chart)		
Detail	Response	Additional Information
Is the cover securely attached to a sump or fitting?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Was the manufacturer's required hardware used to secure the cover (such as stainless steel screws, anchors, adapters, etc)?	<input type="checkbox"/> Yes <input type="checkbox"/> No	Manufacturer supplied hardware is corrosion resistant. Some covers may need additional security such as epoxy for installation. Refer to manufacturer's specification.
Upon visual inspection is the cover undamaged (cracked or broken)?	<input type="checkbox"/> Yes <input type="checkbox"/> No	All submerged suction outlets must be visually inspected on a daily basis. This must be documented by the facility.
Has the cover been installed according to manufacturer's specifications?	<input type="checkbox"/> Yes <input type="checkbox"/> No	If the cover was not installed according to manufacturer's specification approval by a professional engineer or manufacturer's confirmation approving the modification is required.
Is the distance from the outside edge of one outlet to the inside edge of the second outlet no less than 66cm (26 inches)?	<input type="checkbox"/> Yes <input type="checkbox"/> No	For systems with 3 or more interconnected outlets, the measurement is from the outside edge of one outlet to the inside edge of the most widely spaced outlet of the group. 
Are the outlets on different planes?	<input type="checkbox"/> Yes <input type="checkbox"/> No	Refer to below diagram as an example. Suction outlets shall not be installed on seating areas.  Figure 12 Dual Outlets on different planes. Page 7 ANSI/APSP/ICC-7 2013 Used with permission
Are the outlets interconnected? Include information on how this was confirmed, e.g. engineered drawing, line location, pool service professional.	<input type="checkbox"/> Yes <input type="checkbox"/> No	Include appropriate drawings and information as required.
Are any outlets unblockable?	<input type="checkbox"/> Yes <input type="checkbox"/> No	Refer to ANSI/APSP-16 and/or manufactures information to confirm if the suction outlet is unblockable.

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### Part IV – Secondary Anti-Entrapment Device

**Does the pool system have any of the 3 systems below?** *(Check all that apply)*

- Unblockable outlet in accordance with ANSI/APSP-16
- Multiple outlets with adequate flow ratings, and with a distance of no less than 66 cm (26”) from the outside edge of one outlet to the inside edge of the other.
- Outlets on different planes

*If you did not check any of the above 3, then complete remaining sections of Part IV.*

**What secondary anti-entrapment system is employed?**

- Safety Vacuum Release System (SVRS)
- Automatic pump shut off
- Suction-limiting vent system
- Permanently disable the single outlet. Verify that the overflow and skimmers are capable of handling the required system flow and that minimum turnover rates are achieved.\*
- A gravity flow system able to safely limit suction\*
- Convert single suction outlet to return inlet by changing the piping, provided that the system piping and skimmer(s) are capable of handling the full system flow\*
- Other *(specify)*: \_\_\_\_\_

*\* These systems will require review and approval by a professional engineer*

### Secondary Anti-Entrapment Device

Detail	Response	Additional Information
What secondary anti-entrapment device is installed? Make, model, device type:		Include any supporting documents such as manufacturer's manuals and certificate of installation.
When was the secondary anti-entrapment device installed?	Install date <i>(yyyy-Mon-dd)</i> : _____ Expiry date, if applicable <i>(yyyy-Mon-dd)</i> : _____	
Does the device meet either ASTM F2387 or ASME/ANSI A112.19.17 standards?		
Has the anti-entrapment system been tested and functions according to manufacturer's specification?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
How is the system routinely tested and inspected to ensure compliance? Include details and frequency		
Is routine testing and maintenance documented?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Has an engineer or suitable professional certified the installation?	<input type="checkbox"/> Yes <input type="checkbox"/> No	

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Secondary Anti-Entrapment Device Continued		
Detail	Response	Additional Information
Has the device been installed according to manufacturer's specifications?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Are measures in place to prevent tampering? (e.g., codes, locks, etc.)	<input type="checkbox"/> Yes <input type="checkbox"/> No	These can include locking or restricted access to rooms, passwords for the device or lockout/tagout processes.
Have devices been installed to bypass the safety measure?	<input type="checkbox"/> Yes <input type="checkbox"/> No	Bypassing the piping or wiring may allow the device to not work as designed and render it useless.
Part V – Other Submerged Suction Outlet		
Detail	Result	Information
Is there a skimmer equalizer line or submerged suction outlet used for vacuuming?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Is there a cover on the skimmer equalizer lines or are they permanently sealed or disabled?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable	An ANSI/APSP-16 approved outlet cover should be used.
Is there a fitted lid (cover), self-closing cover, a plug or other means to prevent entrapment (cover tested to IAPMO-SPS 4) on the vacuum line?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable	
Are there additional submerged outlets or openings in the pool where entrapment may occur?	<input type="checkbox"/> Yes <input type="checkbox"/> No	Including but not limited to dedicated fill lines, equalizing piping and maintenance drains.
Detail what methods have been used to prevent entrapment for other identified submerged outlets or openings.		
Notes/ Comments:		