



OPEN SPACE SERVICES

JULY 26, 2020

Playground Audit

TRURO MEMORIAL PARK PLAYGROUND

MID MURRAY COUNCIL



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DISCLAIMER

Whilst care has been taken to ensure the accuracy of the information provided in this report, Open Space Services and its employees, take no responsibility for any errors, omissions or changes to information that may occur and disclaim all responsibility and liability to any person in respect to anything done or omitted to be done in reliance upon information within this publication.

PREAMBLE

This report assesses the nominated play space against the relevant Australian Standards listed below.

Australian Standard AS 4685

Playground Equipment and Surfacing

Part 0: Development, installation, inspection, maintenance and operation

Part 1: General safety requirements and test methods

Part 2: Particular safety requirements and test methods for swings

Part 3: Particular safety requirements and test methods for slides

Part 4: Particular safety requirements and test methods for cableways

Part 5: Particular safety requirements and test methods for carousels

Part 6: Particular safety requirements and test methods for rocking equipment

Part 11: Particular safety requirements and test methods for spatial networks

Australian Standard AS 4422

Playground surfacing

Specifications, requirements and test methods

Marking

Individual play equipment structures are to be permanently marked with a plate clearly identifying the name, address, the equipment reference and year of manufacture and a base level mark for the associated impact attenuating surface. In addition, equipment stating compliance with the Australian Standards must be marked. Equipment not marked by the manufacturer will have an allocated serial number supplied, some equipment will have the same manufacturers number for all equipment, this too will receive an individual serial number for each piece of equipment, this will allow for easier identification

Access, Entrance and Surrounds

Playgrounds should have clear access for pathways and supervision without trip hazards, sharp protrusions or weeds. Rubbish bins, water bubblers and seats should be inspected regularly to ensure working order.

Free Height of Fall

The free height of fall must not exceed 1800mm for Supervised Early Childhood Settings and 3000mm for All Age Settings. The free height of fall is the greatest vertical distance measured from the intended body support of the equipment to the impact area below.

Fall zone

A minimal fall zone of 1500mm is required around equipment that have a height 600mm (with fall heights of more than 600mm above ground level) and between individual items of equipment. An increase in the falling space/impact area for equipment with platforms measuring more than 1500mm above ground level.

Falling spaces for specific equipment items with forced movement such as slides, swings and carousels. The falling space/impact area for equipment with forced movement cannot overlap with other falling spaces/impact areas.

Surfacing

Surfacing to Australian Standards 4685.0:2017 be provided across the falling space/impact area where play equipment provisions are more than 600mm above ground level.

Finish of Equipment

Equipment shall have no protruding nails, bolt threads, projecting wire rope terminations, pointed or sharp ended components. Surfaces are finished smooth with no splintering. All playground equipment should be structurally stable, in good condition and fit for children's play.

Protection Against Falling

Guardrails/barriers to be installed for heights of more than 600mm above ground level of intended use. Continuous handrails are required on each side of access ways and bridges. All items intended for gripping must have a diameter that measures between 16mm-45mm.

Head and Neck Entrapment

Head and neck entrapment refer to any opening at a height of more than 600mm above ground level that would allow a child's body to pass through but not their head. This can result in death or serious permanent injury. AS 4685 states that bound head and neck entrapment (dimensions of 89mm – 230mm), partially bound and V-shaped openings, shearing or moving openings (flexible and rigid parts with openings less than 230mm) must be avoided. It is therefore critical that any head entrapment hazards are eliminated immediately.

Clothing/Hair Entrapment

Toggle/clothing entrapment refers to situations where parts of clothing/hair may become trapped and may lead to serious or fatal injury.

Foot Entrapment

Foot entrapment refers to situations where gaps greater than 30mm present on surfaces inclined up to 45° intended for running/walking, completely bound rigid openings in surfaces for running/climbing.

Finger Entrapment

Finger entrapment refers to any opening that would allow a child's fingers or thumbs to be trapped in a fall situation and can be responsible for traumatic long-term injury. Gaps or openings with dimensions of 8-25mm at 1000mm or more above playing surface level must be eliminated.

Means of Access

Equipment is designed to provide safe ascent or descent. Means of access include steps, stairs, ladders and ramps. The equipment shall be designed to ensure that adults are able to gain access to assist children within the equipment.

Natural Playspaces

Natural play elements incorporated into a playground. Where this cannot be applied, a risk benefit assessment may be required to determine the suitability of such elements. A natural habitat will attract wildlife. Ensure that an inspection of the playspace is conducted before children enter. Regular maintenance to remove debris and weeds is recommended.

Documentation

The playground owner/operator must ensure that a Playground Safety Management System is established to include the recording and archiving of documentation.

Documentation to be archived includes:

- • Policies and procedures
- • Reports e.g. accident/injury
- • Inventory/Equipment register
- • Inspection checklists
- • Works orders
- • Maintenance actions
- • Certification records e.g. equipment, surfacing
- • Manufacturer's warranty details
- • Manufacturer's installation, inspection and maintenance instructions
- • Operating Instructions (if applicable)

Maintenance

Routine maintenance checks to be conducted on a regular basis. These include the inspection of all timber, wear and tear on chains, condition of all play items (cracks, corrosion, graffiti, etc), and insect infestation.

All maintenance schedules should be collected from suppliers of equipment and resources made available to meet the requirements of the maintenance schedule. Regular inspections are required. Timber components will require regular sealing and fixtures will require tightening. It is crucial that regular inspections and prompt repairs be carried out to ensure the safe upkeep of play facilities.

Please Note: The standards are not law and are intended as a guide to safety within playgrounds.

Certificate of Audit



22 Egret Place
Hewett SA 5118

Consulting Services to Mid Murray Council

Date	Services Performed By:	Services Performed For:
July 26, 2020	Open Space Services 22 Egret Place Hewett SA 5118	Mid Murray Council Truro Memorial Park Truro

This Certificate of Playground Auditing Summary is issued pursuant to the Australian Standards between **Mid Murray Council** and **Open Space Services** effective **July 26, 2020**

Note: If there is no serial number, the date plate will be used as the serial number with a sequence number attached if more than one date plate. If no serial number exists, one will be allocated to it.

Serial Number: TMP-001	Serial Number: TMP-010	Serial Number: TMP-019
Serial Number: TMP-002	Serial Number: TMP-011	Serial Number: TMP-020
Serial Number: TMP-003	Serial Number: TMP-012	Serial Number: TMP-021
Serial Number: TMP-004	Serial Number: TMP-013	Serial Number: TMP-022
Serial Number: TMP-005	Serial Number: TMP-014	Serial Number: TMP-023
Serial Number: TMP-006	Serial Number: TMP-015	Serial Number: TMP-024
Serial Number: TMP-007	Serial Number: TMP-016	Serial Number: TMP-025
Serial Number: TMP-008	Serial Number: TMP-017	Serial Number: TMP-026
Serial Number: TMP-009	Serial Number: TMP-018	

Date and time of audit

The Services commenced on [July 26, 2020](#), and shall continue through [July 26, 2021](#).

Certification by auditor

Certifying Auditor: [Barry Rolton – Open Space Services](#)

Defects outstanding:[2](#)..... Defects corrected: Date:





Remedial works outstanding: ...[3](#)..... Works completed: Date:

Certification to standard: Date:

Certified safe for use: Date:

Risk Matrix

		CONSEQUENCE				
		LITTLE OR NO INJURY	MINOR INJURY REQUIRING FIRST AID	MODERATE INJURY CAUSING ABSENCE FROM SCHOOL	SERIOUS INJURY WITH LONG TERM CONSEQUENCES	DEATH OR DISABILITY
LIKELIHOOD	RARE (Highly unlikely event)	LOW	LOW	LOW	LOW	LOW
	UNLIKELY (Conceivable event)	LOW	LOW	LOW	MEDIUM	MEDIUM
	POSSIBLE (Could occur event)	LOW	LOW	MEDIUM	MEDIUM	HIGH
	LIKELY (Almost certain event)	LOW	MEDIUM	MEDIUM	HIGH	HIGH
	ALMOST CERTAIN (Will occur event)	LOW	MEDIUM	HIGH	HIGH	UNACCEPTABLE RISK

	Low is the risk related to all other areas of the inspection, this does not require any works. Low is given rather than “No Risk” as there may be a risk that is unknown such as when the equipment gets hot, it could burn a toddlers skin.
	A medium risk is most likely to apply to top ups of loose fill top ups where the level has dropped as far as 200mm. This risk has the three month completion date and starts from the time of inspection.
	A risk assessment of high does have to be rectified or reach a risk assessment of low. This will usually take no longer than one month from the date of receiving the report.
	Any items or works under this risk assesment needs to be carried out as soon as possible or the item needs to be bunted off if iminant injury is possible.

Priority Rating

There are 4 priority rating

- Low** Minor to No foreseeable problems
- Medium** Indicates attention required within 2-3 months
- High** Indicates immediate attention required
- Urgent** Make safe, bunt off asap

General inspection of Play equipment and general area

On arrival, a general inspection is required for both safety and to identify the area and how it is generally utilised. This is also a requirement for risk assessment that was supplied at the time of quotation.

VISUAL INSPECTION		
Play Equipment	Findings	Rating
Debris in the playground that may be hazardous, such as broken glass, needles or animal fouling.	The playground is clean with no areas of debris apart what is breaking off the tree round stepping pads.	LOW
Loose-fill surfacing levels that are at inadequate levels.	The equipment in this area is below the 600mm height.	LOW
Damage to unitary surfacing	No, synthetic surface within this playground.	LOW
Equipment that is broken or missing as a result of use or vandalism.	The tree rounds are starting to decay and segments are starting to break away, new rounds are required	MEDIUM
Graffiti.	No graffiti was seen	LOW
The condition of ancillary items, such as barbecues, tables, rubbish bins, etc.	All of the ancillary items are in good condition, most are not of an age where they would be showing signs of deuteriation.	LOW
Dead or damaged overhanging branches that may potentially fall onto the playground.	No trees were affecting both play and ancillary equipment.	LOW
Comments		
Refer to individual assessments for required work.		

COMPREHENSIVE ANNUAL INSPECTION

A comprehensive annual inspection requires the checking of all items listed in Clause 8.5.4, and 8.5.3., this inspection is intended to determine conformance with the relevant parts of AS 4685 and to establish the overall level of safety of the equipment.

Items to be assessed: (Hazards)	Assessment responses			Assessment review	Rating
	Yes	No	N/A		
SURFACING					
Is the playground free of concrete, asphalt or other non-impact absorbing material under play equipment? (Any hard surface should be removed and replaced with an impact-absorbing surface when fall height is greater than 600mm.)	Yes			No fall areas over 600mm were located apart from the swings which will require toping up as the levels were around the 200mm mark.	MEDIUM
<i>Loose-fill material</i>					
Is there adequate drainage to prevent rotting?	Yes			The swings are located on a slope and is free draining.	LOW
Does it extend at least 1.5m from all equipment that is less than 1.5m in height, or 2.5m from equipment that is up to 3m in height?	Yes			All equipment has the proper free fall area ratings required.	LOW
Are the borders enclosing the loose-fill surfacing secure?	Yes			The swings have borders for the softfall	LOW
EQUIPMENT					
<i>Platforms, structures and frames</i>					
Is the maximum height from which the user can fall 3m for general equipment, 2.2m for upper body equipment (e.g. jungle gym) or 1.5m for early childhood center's?			N/A	Highest platform is less than 600mm	LOW
Are all structural foundations free of movement, checked for wear and below ground level?	Yes			All structures were free of movement and none had rust creep.	LOW
Are all structures free of rot or corrosion and have no missing parts, panels or fittings? (Check that plastic equipment is sound and free of cracks and deterioration from the sun.)	Yes			The tree rounds are rotting and will require replacing, as they are a natural item used as a play item, they are considered a structure without foundation.	MEDIUM
Are all components designed to prevent water entering enclosed areas and free of deterioration? (Check cap ends, grommets, on bolts or screws.)			N/A	No caps or grommets were found or were needed.	LOW

Are all components free of corrosion and bulging and all nails and fixings flush with surface or countersunk?	Yes			All components were as installed with no abnormal anomalies.	LOW
Are all bolts and fasteners secure?		No		The fire pole will need a new bolt to stop movement.	LOW
Are all exposed protrusions and sharp edges removed? (Check for protruding nails, rivets and bolts, which may need to be covered or sawn off.)		No		There is a repaired item in the climbing grid that will need a different repair, the bolt heads are protruding.	LOW
Are platforms and other standing surfaces free of moss, mold and other unhygienic matter that may cause corrosion or slipping?		No		The platform under the pine tree will need cleaning from the sap that has fallen on it.	LOW
Are all guardrails and barriers around decks and platforms secure, free of sharp edges and small enough for a child's grip?	Yes			All platforms are within specification	LOW
Are all equipment surfaces and parts in good order? (Check for splits, splinters, cracks, cuts and open joints. Look at specific pieces of equipment such as swings and slides. Swing seats should be made of a soft material rather than wood. Slides should have a smooth surface and gradual surface at the bottom.)		No		The wood rounds have started to decay and	LOW
Are all parts of each piece of equipment such as links, chains and fasteners, secure and not excessively worn? (Check for empty bolt holes, loose pieces of chain and S hooks not tightly closed. Replace pieces if wear is noticeable. Look at specific pieces of equipment such as swings and swinging bridges.)		No		Items that are worn and need attention are itemised in the report.	LOW
Are ropes securely fastened and all frayed rope ends trimmed and repaired? (Check that ropes have not been added to the original design.)	Yes			No ropes have been added and are in fair condition.	LOW
Is rope, chain or tire nets in good repair and to the original design? (Check that rope and chain nets are secured top and bottom.)	Yes			All chains and rope netting are in fair condition	LOW

Are all access ramps and entrances to the equipment free of slipping and tripping hazards?	Yes			All entry and access are free of any trip or fall components.	LOW
Are all access and entrance points to the playground and equipment free of exposed protrusions and sharp edges?	Yes			All entry and access are free of any trip or fall components.	LOW
Are all entrapment points eliminated? (Check for any narrow openings, "V" shaped gaps or sharp angles hooks or protrusions, which could trap a child's head or limb.)	Yes			No entrapment points were found.	LOW
Are all steps, ladders, guardrails and nets large enough to let a child get their body right through?	Yes			All areas are compliant	LOW
Are slides free from toggle hang points where clothing and hats can get caught up in them?	Yes			The slide has an area which was tested as it looks like it could get the toggle caught, the toggle did not fowl at any test.	LOW
Is there enough space between equipment so that children can move freely between areas without bumping or running into each other?	Yes			There is ample room for children to interact while equipment is being used, the areas between have no restrictions.	LOW
Is the playground set out to allow for unobstructed supervision?	Yes			The playground items are can be seen from observation areas close to the play equipment.	LOW
Are pathways around the playground clear of hazards? (Check for cracks, subsidence, jagged edges and signs of poor drainage such as puddles.)	Yes			Most of the edging material is turfed or Hardstand which is all safe to transverse.	LOW
Is the playground environment in good condition and free of rubbish? (Check playing fields and concrete areas.)	Yes			The whole school site is clean and tidy.	LOW
Comments					

Play Area and Shelter

Serial Number: [TMP-001](#)

Serial Number: [TMP-002](#)

Serial Number: [TMP-003](#)












Serial Number: [TMP-004](#)

Serial Number: [TMP-005](#)

Serial Number: [TMP-006](#)



OPERATIONAL INSPECTION

OPERATIONAL INSPECTION		
Play Equipment	Findings	Rating
Excessive wear of moving parts (including chain links).	No moving parts	
Any protrusions and sharp edges.	No sharp edges or protrusions were found.	
Are all bolts and fasteners secure?	No bolts or fasteners on this equipment.	
Are there any entrapments, hang points or catch points on any of the equipment?	No hang points or entrapment was found.	
The structural adequacy and/or stability of all playground equipment including ancillary items. NOTE: Equipment that relies on a single anchor or attachment point should be carefully inspected.	The structural stability is acceptable on the item.	
Excessive corrosion, particularly within structural members.	No corrosion was found on the equipment.	
Impact and attenuating edges of swing seats, pommels and other moving equipment that can impact users.	All edges were as designed with no areas of concern.	
Foundations for exposed concrete, rot and corrosion.	No exposed concrete was found and no base corrosion was identified.	
Trees for potential hazards. NOTE: This may require the skills and competencies of a professional arborist.	No trees impact this area.	
Are chain links or gap areas greater than 12mm or less than 8.6mm	No chains on this piece of equipment.	
Are all structural attachments affixed tightly to their respective anchor points and attachment points sound with no wear or pull out from fixture points?	The equipment is a series of rigid structure with no moving parts.	
Comments		

The climbing fence is securely fixed with all the rope connections still connected quite soundly to the post. The posts bases and top rails are all sound with very little areas of movement.



Many of the tree rounds have started to break apart, all will need to be removed and replaced but the rounds should be treated before they are replaced, refer to fact sheet on the process.



The slide is sound and has very little wear, all fixture points are stable and no movement was detected, the slope and length of the slide does not require softfall



TMP - 003

All fixtures and attachments for this long chain swing are all in good condition and fix security key all the logs within this piece of equipment. The top log what time logs are in good condition and are quite sound and the fixtures.



TMP - 004

This fountain is working as manufactured, on the rear of the fountain is the security tap which is dripping continuously and causing the area below to be wet at all times. The tap is either not turned off properly or the washer will need to be replaced.



The two lots of seats and tables are both in good condition with no loose boards and both are quite clean with no vandalism or damage apart from some scratched in writing on one board. This does not remove any structural capacity from the table and is not a great problem.





The shelter does have a lot of mold on the underside which looks to be from water or mildew that are settled on the inside of the roof. This may need to be cleaned before it gets too much of a buildup.



The fence panel on the shelter closest to the power box in the back of the park is loose and will need re-tightening and I would suggest using Loctite to keep them from coming out.



Ancillary Items

Equipment Number: GPP-AI1

Serial Number: [TMP-009](#)
Serial Number: [TMP-010](#)
Serial Number: [TMP-011](#)
Serial Number: [TMP-012](#)
Serial Number: [TMP-013](#)
Serial Number: [TMP-014](#)

Serial Number: [TMP-015](#)
Serial Number: [TMP-016](#)
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Serial Number: [TMP-024](#)
Serial Number: [TMP-025](#)
Serial Number: [TMP-026](#)



OPERATIONAL INSPECTION

Comments

The bike rack is in good condition and doesn't have any signs of deuteriation, all fixtures are sound and no movement within the structure.



The bench seat and table are securely affixed to the slab and all parts are fastened with no movement.



The bin was locked and the structure was sound.



The bench seat has four of the boards securely attached to the seating, the middle board will need to be fixed in place I would suggest the use of silicon for this as the bolt coming out from the concrete will require removal and the new one installed however with the silicon you can attach it to the area as long as all the rust is removed from the old bolt.



This sculpture is as installed.



This sculpture is as installed.



This sculpture is as installed.



This sculpture is as installed.



This sculpture is as installed.



This sculpture is as installed.



This seat is in good condition and affixed soundly to the footings.



TMP - 019

The tree surround in the dog park is in good condition but doesn't have a tree.



TMP - 020

This tree surround is in good condition, the tree is on a lean and this may impact the surround as it matures.



The dog bridge is in good condition and is stable.



The water fountain is functional and works as required.



The bench seat is all intact and fixed securely.



The sign is in good condition, the graphics and text is legible and with no fading, it is mostly as installed condition.



Completion Criteria

The twelve-monthly audit undertaken by Open Space Services provide the following summary in regards to condition of the Play Equipment and summary of outstanding defects.

Serial Number: [TMP-001](#)

- No work required

Serial Number: [TMP-002](#)

- Remove and replace all log rounds. **Defect**

Serial Number: [TMP-003](#)

- No work required

Serial Number: [TMP-005](#)

- The tap on the rear of the fountain needs to be checked and either turned off properly or it may need a new washer. **Remedial**

Serial Number: [TMP-006](#)

- No work required

Serial Number: [TMP-007](#)

- No work required

Serial Number: [TMP-008](#)

- Removal of bacteria build up is recommended, steam cleaner or high-pressure sprayer will remove most of the bacteria. **Remedial**
- Fence panel needs to be refastened on the rear panel. **Remedial**

Serial Number: [TMP-009](#)

- No work required

Serial Number: [TMP-010](#)

- No work required

Serial Number: [TMP-011](#)

- No work required

Serial Number: [TMP-012](#)

- The middle bottom slat will require refastening, the use of silicon such as liquid nails should allow for fixture without having to redrill a hole that may cause weakening in the concrete. **Defect**

Serial Number: [TMP-013](#)

- No work required

Serial Number: [TMP-014](#)

- No work required

Serial Number: [TMP-015](#)

- No work required

Serial Number: [TMP-016](#)

- No work required

Serial Number: [TMP-017](#)

- No work required

Serial Number: [TMP-018](#)

- No work required

Serial Number: [TMP-019](#)

- No work required

Serial Number: [TMP-020](#)

- No work required

Serial Number: [TMP-021](#)

- No work required

Serial Number: [TMP-022](#)

- No work required

Serial Number: [TMP-023](#)

- No work required

Serial Number: [TMP-024](#)

- No work required

Serial Number: [TMP-025](#)

- No work required