

periplum

7 Alleys, Land of Green Ginger, Hull 2017

East Park, Hull Performances Wed May 3rd – May 6th 2017 On site from Sunday 1st May –Sunday May 7th 2017 Site specific outdoor performance for audiences up to 4000. DRAFT Risk Assessment. VERSION 1.1

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1. Intro & Who's Who:

This Event Summary and show Risk Assessment has been drafted during the show's pre-production and development period drawing on policy and procedures from Periplum. It's purpose is to record and communicate the nature of the show as it is devised and developed. Responsibility for delivering the performance on-site, in adherence with this document, will be shared between the Directors of Periplum, Production Site Manager Gabriel Burden & Hull LOGG Production Managers.

As a document reflecting the development phase of the project, the intention is that it should be considered a live document and updated to reflect the inevitable changes and further development of the show once it is performed live with an audience.

2. Show / Project Overview:

The 7 Alleys will have several preliminary events in advance of the main show. These will take place in various locations in Preston Road & Holderness Road areas of East Hull and will feature a horse and carriage promenading through the streets hired from a local company KRM Carriages, and covered by their own MSRA.

The 7 Alleys show is performed as a promenade through multiple locations within East Park, Hull. Show begins at an assembly point where audience will be led to & from the main show site.

There are four areas within the show site, and reflected in this document. Three performance areas, located within hard barrier cordons & rope and pin, which we are calling 'Weeble Enclosure', 'Watch Tower Enclosure' & '7th Alley'. The fourth area is the audience area, within which will be mobile structure movement, and performer movement.

The action of the performance moves between the areas, and through the audience area. In all performance areas there is PA and lighting equipment. In addition, pyrotechnic effects are used in all four of the show areas, use of which are covered in a separate MSRA.

3. Core Show Elements:

ASSEMBLY POINT & BOULEVARD:

The audience will be directed to an assembly point at entrance to East Park. This will have

4 x PA positions within provide sound coverage from the centre area Lighting to cover the area The horse and carriage will move along the Assembly Point and Boulevard leading audience to the main show area – carriage and horses are covered by their own MSRA.

WATCH TOWER ENCLOSURE:

- The Watch Tower area is a hard barriered & roped off area area at the end of the site.

- 2 x PA positions within provide sound coverage from the centre area

- 1 X (off-the-shelf) confetti blower using pressurized CO2 gas will be used to eject confetti over the audience during the show. Please see pyro Risk Assessment.

Lampost Platforms:

3 X specially adapted stage deck risers will offer three performance platforms. They offer a 1mx1m platform, which is 1.5m from the ground. The platforms are self-supporting, braced at ground level, with additional ballast for stability. The platforms are fitted with foot holds and ladders for performer access and a central pole provides hand-hold for performers.

The Watchtower:

In the centre of the area is the watchtower itself, a bespoke hexagon structure standing 16ft tall and 8ft wide. The tower has a performance area on the roof, three performance thrust platforms at 8ft. The lower half provides a back-stage room for technical equipment. The tower has been designed and constructed by suitably qualified theatre engineer and structurally certified for use.

2 x PA positions within the barriered circle provide sound coverage from the centre area

WEEBLE ENCLOSURE::

The Weeble enclosure is a hard barriered & roped off area area at the end of the site.

- 2 x PA positions within provide sound coverage from the centre area

Burning Windows & Poles (diagram pictured left):

A series of window props, constructed in steel and set on 4.5m poles will be rigged in both **the Weeble Enclosure and 7 Alleys** areas. The bottom of the window is at 2.5m The windows are set in steel bases which are inherently heavy and weighted for extra stability. The windows are set in steel bases which are inherently heavy and weighted for extra stability. See Lightfires Pyro risk Assessment for info on burn effect.

The Rocker:

A steel frame structure with a 4m x 5m footprint, 6m high.

The Rocker is tipped on its' side by 4 performers during the course of show, and a net is climbed onto by performers. It is also on wheels and is pulled in a procession, through the audience, along the full length of the performance area. The rocker can also be then raised back up to it's original orientation and chocked into place for stability so that it is incapable of rocking.

7 ALLEYS ENCLOSURES:

The 7 Alleys enclosures are 2 hard barriered & roped off areas at the side of the site, for either side of the audience's exit.

- 2 x PA positions within provide sound coverage for the centre area
- A series of pyrotechnic poles and flambeaux on either side with pyrotechnic effects covered by Lightfires MSRA

AUDIENCE AREA:

Cart (pre-set position Watchtower):

The cart is a mobile stage platform which can move through the performance area during the show and is pre-set in the Watchtower enclosure . The cart will require entrance and exit points to the barrier cordon to move out during the performance. It is 4.3 x 1.7m and rests on large wheels at a height of 90cm. This structure also has six 12V lights attached to it to better illuminate the performance. During movement the cart is escorted by participants performers on each side, and is managed by Periplum Director.

The See Saw:

The see Saw is a mobile stage which can move through the performance area during the show and is pre set in the 7 Alleys enclosure. It is a steel frame structure with a 2.5m x 2.5m base footprint on wheels, and a 6m long truss attached on top creating a 'see saw' effect. There are harness attachments at each end, whereby performers can attach their own harness & counterweight one other up into the air. The truss can move in an upwards and downwards direction as well as rotating around the central point.

CAST & CREW:

- Periplum core cast/production technical crew of 13
- Lightfires crew of 2.
- 25 x core local participants who will be performing in all of the shows and therefore will rehearse and perform more involved aspects of the show.

PLUS:

- Local PA and lighting crew
- LOGG Production and Any Site crew support
- Stewards and Security

Periplum 7 Alleys- Show Spec & RA - DRAFT

3. Technical / Other Elements

Multi-source PA:

- The score and sound-scape for the performance will be delivered both from 2 fixed PA system installed on-sites and this will be provided by LOGG and covered by the hire companies MSRA
- Locally hired and installed PA will be installed in **the Weeble Enclosure**, **the Watchtower Enclosure** and the 7 Alleys Enclosure. Signal and power distribution required to all areas. Control position in FOH tent towards the middle side of the site.
- Mobile PA will be a number of (periplum provided) battery powered portable speakers installed across the site.

LX

- Theatrical Lighting hired and installed in all park areas requiring power and signal distribution across the site. Signal and power distribution required to all areas and this equipment will be provided by LOGG and covered by the hire companies MSRA
- . Control position in FOH tent towards the middle side of the site.

FOH / Control Position:

Gazebo (LOGG provided) on raised stage deck platform (LOGG to provide).

Production / Store / Backstage Tent and compound:

Second provided prop storage / quick change location on site for use prior and during show. Can sit on the ground (may require ballast on hard-standing). 12'x12' version of the above. http://www.anchorsupplies.com/tents/12x12-ex-british-army-frame-tent-aka-15x12-a-grade.html

7 Alleys Draft Arena Site Plan East park



- Pathway for mobile structures' movements (cart, 'rocker', see-saw), ushered by participants
- O Scaffold tower ('lighthouse')
- 3 x 'Lamp-post' platforms (steel deck @1m x 1m x 1.5m high
- Speaker stacks
- 'Cart' (mobile structure)
- 🚖 'See-saw' (mobile aerial rig)
- 'Alley of fire' mix of gas flambeaux poles, paraffin flambeaux poles and fire rope vertical poles
- Rocking aerial rig, also tips over to go on wheels and move
- ⊕ Burning 'windows' –steel frames with fire rope
- Hard barrier
- Rope & pin
- Control position

Periplum 7 Alleys- Show Spec & RA - DRAFT

5. Show Site Area & Capacities:

The Show Area has different performance sites which present different ground conditions and potential audience capacities.

6. Inclement Weather

7 Alleys has been designed as an all weather show and as such the action is resilient to mild to moderate adverse weather conditions.
The company policy is that in the event of adverse weather conditions the show will continue as long as it is safe to do so.
This may result in certain elements being cut, or scaled back as appropriate.
Weather forecasts will be assessed in advance and throughout the day of the show and adjustments made accordingly.
Any decision for full cancellation will be in discussion with Periplum Directors, Firework Safety Officer, LOGG Production Managers.

7. Event Stewarding & Security

We imagine specific show deployment to require 10x fixed and roaming stewards for show roles.

Exact deployment pending at time of writing, and will be finalised on site.

These roles are in addition to any stewarding / security requirements for the site overall, or wider event management aspects.

Draft Deployment of show specific stewarding roles (see also generic Site Plan):

- 2 x stewards with Watchtower enclosure on cordon line of the enclosure (ensure no audience access, cordons remain intact, easy performer access)
- 2 x stewards with Weeble enclosure on cordon line of the enclosure (ensure no audience access, cordons remain intact, easy performer access)
- 4 x stewards with 7 Alleys enclosure on cordon line of the enclosure (ensure no audience access, cordons remain intact, easy performer access)
- 2 x technical position (ensure no audience access, cordons remain intact, easy performer access)

8. Risk Assessment

1. Working on Site – General

- 1.1 Unsafe working areas
- 1.2 Manual Handling
- 1.3 Vehicles on Site
- 1.4 Fire
- 1.5 Working at Height

2. Set / Structures / Props

- 2.1 Build / Get out
- 2.2 Watch Tower
- 2.3 Performer Towers
- 2.4 Windows / Lamposts / Projector mounts
- 2.5 Cart / Wall
- 2.6 Performers at Height WatchTower
- 2.7 Performers at height Platforms
- 2.8 Placards, Banners, Handheld lights

2.9 Periplum LX systems

3. Audience Area & Management

3.1 Mobile Set through audience3.2 Performers moving through audience3.3 Pyro effects in audience3.4 Audience Disorientation

4. Working with Volunteers

4.1 Inexperience / incompetence

5. Other

5.1 Tent / Gazebo5.2 Use of Pyro5.3 Inclement Weather

Who: Persons Affected. A = Audience, B = Periplum Team, Vol Performers, Stewards, C = Members of Public

Ref	Area & Hazard	Who	s	L	RNC	ACTION / CONTROL	s	L	RR
1.	Working on Site – Gener	al					<u> </u>	<u> </u>	
1.1	Unsafe working areas, trip hazards Injury	B C	4	6	24	Due care and attention made when setting and starting working areas. Barrier / rope and post cordons used when necessary. Site Management to maintain cordons for general public preventing access to working / build areas. Working areas keep generally tidy and clear from excessive trip hazards Appropriate PPE available on site. First Aid kit and trained crew member on site		2	8 LOW
1.2	Manual Handling Bad practice leading to injury	В	4	4	16	First Aid kit and trained crew member on site 4 Good practice employed with all manual handling work. 4 Two person lifts for heavy items. 4 Appropriate PPE available on site. 5 First Aid kit and trained crew member on site 4		2	8 LOW
1.3	Vehicles on site Collision leading to injury	B C	8	4	32	All vehicles move < 5mph on site at all times. Walking escort when moving across public open areas. Vehicle movement restricted to essential movement only.	8	1	8 LOW
1.4	Fire Burn, Injury	A B C	6	4	24	FE provided by Site Management on morning of Day 1 and located in logical positions in ach of the main show areas. te kept clear and tidy with rubbish / other combustable materials disposed of. yro to be prepped in appropriate safe working area with dedicated FFE. Please see eparate pyro Risk Assessment. Il 12V Periplum equipment to be managed by appropriately skilled crew member and ested during installation stallation of site power, distribution, LX and PA equipment to be undertaken by opropriate contractors in adherence with their own best practice. rst Aid kit and trained crew member on site		2	12 LOW

Ref	Area & Hazard	Who	s	L	RNC	ACTION / CONTROL		L	RR
1.5	Working at Height Falls / collapse leading	B C	6	6	24	Ladders to be inspected as good for use before load and throughout time on site. Crew to adhere to good practice when working with ladders / at height	6	2	12 LOW
	to injury					Crew experienced with working at height.			
						Appropriate PPE available: gloves, hard hats etc			
						First Aid kit and trained crew member on site			
2 .	Set / Structures / Props Build / Get out	В	8	4	32	All installation of Structures will be undertaken by experienced personnel familiar	8	1	8
	Injury during build / get-					with the assembly / erection process.			LOW
	out					Build to be coordinated by company Rigger			
						All crew are familiar with good manual handling techniques.			
						Appropriate PPE worn at all times, including hard hats.			
2.2	Set / Structures:	А	10	4	40	Watch Tower has been designed and constructed by professional theatre set engineer	10	1	10
	Watch Tower	В				with over 20 years experience.			LOW
	Collapse leading to					Watch Tower constructed to withstand all activity planned for it including performer			
	injury					access, aerial performance, fire and flame effects etc.			
						Watch Tower to be installed in adherence with design and engineers instruction.			
						Structure to be certified as fit for purpose by Structural Engineer (pending at time of			
						writing).			
						Structure stands 16ft tall and installed with 5m clearance from edge to barrier cordon.			
2.3	Set / Structures:	А	6	4	24	Performance platforms constructed with standard stage deck and scaffolding offering	6	1	6
	Performer Platform	В				platform of 1mx1mx1.5m high.			LOW
	Towers					Legs cross-braced and weighted with additional ballast to ensure stability.			
	Collapse leading to					Platforms installed by competent crew and each checked by Periplum rigger /			
	injury					appropriately experienced PP crew prior to use.			
						Platform enclosed within a cordon in excess of audience arms reach. Cordon either rope			
						and post (greenfield sites) or PED - to be determined on a site by site basis.			

Ref	Area & Hazard	Who	S	L	RNC	ACTION / CONTROL	S	L	RR
						Performer movements within the footprint of the platform to prevent excessive lateral force.			
2.4	Set / Structures: Windows / Poles/lamppost mounts <i>Collapse leading to</i> <i>injury</i>	AB	6	4	24	 Windows are all constructed with similar design – with a weighted base supporting an up-right pole. Bases weighted with additional ballast as necessary. Poles are attached to metal pins and their fire elements will be covered by Lightfires pyro Risk assessment. Structures installed by competent crew and each checked by Periplum rigger / appropriately experienced Periplum crew prior to use. Windows and poles installed in excess of their fall heights from the audience. 	6	1	6 LOW
2.5	Set / Structures: Rocker/ Wall <i>Collapse leading to</i> <i>injury</i>	AB	6	4	24	Rocker has been designed and constructed by professional theatre set engineer with over 20 years experience. Structures installed by competent crew and each checked by Periplum rigger / appropriately experienced PP crew prior to use. Furthermore they are drawn from existing Periplum set stock and have been safely used in numerous shows over the last 5+ years. Wall installed within cordoned area from audience / general public Cart escorted by volunteer performers and PP crew / cast whenever in audience area to prevent audience access	6	1	6 LOW
2.6	Performers at height – Watch Tower Weeble See Saw Cart Falls from height leading to injury	A B	8	4	32	 All cast and crew are experienced Periplum company members, with experience of the companies shows including work and performance at height. All cast and crew are familiar with structure through rehearsal period and competent to safely access and perform required action. All cast and crew to wear appropriate PPE for performance at height including climbing shoes, and gloves as appropriate. Design of the physical action carried out with possible weather condition of a winter show in mind – and with potential to scale-back in event of adverse weather. 	8	1	8 LOW

Ref	Area & Hazard	Who	S	L	RNC	ACTION / CONTROL	S	L	RR
						Open face and edge of thrust marked with white tape to increase visibility. Aerial work carried out performed with aerial equipment specified, installed and managed by company rigger. Access to top level of watchtower to be carried out in agreed safe method – and performance all restricted to use with appropriate safety harness. Anti slip paint on floors Ladders are outdoor spec, painted brown with foot grip left silver for safe ladder use A safety strop fitted to hook hand in for performers when standing on 3 tower extendable platforms When putting these up, performers signal safety check to ones about to stand on platform A clear signal for use of door hatch - in rehearsals 'coming up/down' and during show the last performer up closes it to avoid heads accidentally being knocked Foam added to door hatch and certain areas which performers may accidentally collide Only trained Periplum performers/cast/crew will be allowed to go in or on the Watchtower. Weeble or See Saw Periplum rigger will oversee regular checks of all rigging of strops, harnesses and aerial equipment			
2.7	Performers at height - Platforms Falls from height leading to injury	AB	6	4	24	 Please also refer to Periplum Performance at Height document for general information on company approach to performance at height. All cast and crew are experienced Periplum company members, with experience of the companies shows including work and performance at height. All cast and crew are familiar with structure through rehearsal period and competent to safely access and perform required action. All cast an crew to wear appropriate PPE for performance at height including climbing shoes, and gloves as appropriate. Design of the physical action carried out with possible adverse weather conditions – and with potential to scale-back in event of adverse weather. Platform surface to have non-slip surface and edges marked in white tape / paint 	6	1	6 LOW

Ref	Area & Hazard	Area & Hazard $\begin{cases} \varphi \\ S \\ L \\ \varphi \\ Z \\ Z$		s	L	RR			
						Adequate / suitable foot holds / steps on platform legs to ensure safe access.			
						Central upright pole provides safety hand-hold for performer at all times.			
						Platform enclosed within a cordon in excess of audience arms reach. Cordon either rope			
						and post (greenfield sites) or PED - to be determined on a site by site basis.			
						Performer movements within the footprint of the platform to prevent excessive lateral			
						force.			
						First Aid kit and trained crew member on site			
						All performers and 3 trained volunteer performers allowed on the top			
						Climbing ladder - hold onto central pole when you can safely reach it and use to			
						bring body up onto platform			
						Weights - making sure enough ballast is on site			
						Painted with anti slip paint and grip paint			
						A ridge/edge to be added to the side which gives performers ability to feel with foot			
						where the edge of platform is			
						Only trained Periplum crew will hand up & take down oil drums/large objects to			
						performers			
						Volunteers to hold onto central post and not allowed to lean out from any platforms			
2.8	Placards, Banners,	А	6	2	12	Volunteers trained in safe usage to hold above audience heads or safe way of	6	1	6
	portable hand-held	В				holding in one spot.			LOW
	lights, balloons								
2.9	Derinlum IV quaterna	В	2	4	8	Overseen by Volunteer CoOrdinator or Periplum actor at all times.	2	2	4
2.9	Periplum LX systems	в	2	4	8	Majority of Periplum LX systems all powered via 12V sealed lead-acid batteries.	2	2	4 LOW
	Electrocution / shock /					Negligible shock risk.			LOW
	burns					All equipment to be inspected during charging / installation process and any defective			
						equipment properly disposed of.			
						Site power / distro provided by Site Management			

Ref	Area & Hazard	Who	S	L	RNC	ACTION / CONTROL	S	L	RR
3.1	Mobile Set / Structures moving through audience <i>Cart, Weeble or See Saw</i> <i>Collision leading to</i> <i>injury</i>	Ing through enceBSpecific nature of the site size, layout, expected audience numbers and other site specific factors.Weeble or See Saw tion leading toCart, See Saw & Weeble escorted by up to 6 x local participant performers positioned left and right of cart to ensure no audience access to sides / wheels.		6	2	12 LOW			
3.2	Performers moving through audience <i>Injury</i>	AB	2	4	8	Illy briefed on potential hazard during movement. eriplum cast, core volunteers and local volunteers move through audience at various bints during show. Il action is suitably paced, with flexibility in timings built into the sequence to allow for elay. Il action to be thoroughly rehearsed with volunteers and all participants checked by eriplum Directors or experienced crew to confirm competence. or pyrotechnic effects carried through audience please see separate pyro Risk ssessment. Il actions involving vol. or core performers carried out with multiple persons to ensure upport / help as required. vent Stewards on site to support entry / exit from cordoned areas.		2	4 LOW
3.3	Performers carrying	А	6	4	24	See 3.2 and separate pyro Risk Assessment	6	2	12

Ref	Area & Hazard	Who	S	L	RNC	ACTION / CONTROL	S	L	RR
	pyro / flame effects through audience Burns / Injury	В							LOW
3.4	Audience Disorientation Leading to confusion / panic / injury	A B	6	4	24	All interaction / movement through the audience will be assessed and adapted to the specific nature of the site size, layout, expected audience numbers and other relevant factors. PP performers very experienced in directing and rehearsing action within audience areas. Event Stewards on core barrier/ cordon lines. Site signage installed as relevant by Site Management.	6	2	12 LOW
л	Working with Voluntoors								
4 .	Working with Volunteers	A	6	4	24	Periplum has extensive experience of working with voluntary participant performers and	6	2	12

5. Other

Ref	Area & Hazard	Who	s	L	RNC	ACTION / CONTROL		L	RR
5.1	Tent / Gazebo Collapse Injury	B C	4	4	16	Tents in use are ex-army issue tent structures suitable for our intended use. All tents to be properly erected by competent Periplum crew and checked prior to use. Tents to be suitably guyed (green-field) to ensure stability. Tents to be regularly checked / shored up in inclement weather.	4	2	8 LOW
5.2	Use of Pyrotechnics and Fire Accident leading to injury	A B C	6	4	24	Periplum will be working with Light Fires as pyrotechnics provider, who had suitable PL insurance in place The company has a long working relationship with Paul Bryce, who understands the nature of the work, and the considerations with work of this nature. All pyrotechnics, flame effects, confetti blower is covered in separate Risk Assessment from Light Fires	6	2	12 LOW
5.3	Inclement Weather leading to dangerous conditions Injury	A B	6	4	24	In the lead up to the event weather forecasts will be analysed and weather conditions will be monitored throughout the build period and the day of the event. Given that the event is a one-off occasion and cannot be rescheduled then it will proceed AS LONG AS IT IS DEEMED SAFE TO DO SO, regardless of the weather. In the event of bad weather certain elements may be relocated, and certain elements may become unviable in prolonged inclement weather eg. Performance on raised areas.	6	2	12 LOW
5.4	Horse & Carriage collision & falls from and with horses & carriage.	A B C	6	4	24	Periplum will be working with KRM Carriages who have suitable PL insurance in place The company has an existing working relationship with KRM from a previous pilot project and safe practice has been established. KRM are experienced horse and carriage handlers, and have been briefed on the contents of the show with Periplum. All aspects of the usage & journeys of Horses & carriage in various East Hull Locations are covered by KRM Risk Assessments.	6	2	12 LOW

Risk Assessment Notes:

Who: Persons Affected. A = Audience, B = Periplum Team and Stewards, C = Members of Public

Risk Ratings are calculated as follows: L (likelihood) x S (severity) = RNC (Rating with No Control). This Primary Rating is an assessment of risk where no control measures are present. Action/Control details the measures to be implemented to manage this Risk. RR = Residual rating is an assessment following implementation of control measures. Residual rating score indicates the level of risk as follows:

SCORE	RESIDUAL RISK	DEFINITION
25 to 100	HIGH	Level of risk is unacceptable.
13 to 24	MEDIUM	activity presents risk which are partially controlled and further measures should be taken
1 to 12	LOW	risks adequately controlled.
0	N/A	no risk identified / rating system inappropriate

Risk Assessment Matrix

	SEVERITY						
		Multi- Death	Single Death 8	Major Injury 6	3 Day Injury 4	Minor Injury 2	Trivial or N/A 1
		10					
	Certain 10	100	80	60	40	20	10
	Very Likely 8	80	64	48	32	16	8
۵	Probable 6	60	28	36	24	12	6
OOD	Possible 4	40	32	24	16	8	4
H	Unlikely 2	20	16	12	8	4	2
LIKEI	Very Unlikely 1	10	8	6	4	2	1

Definition of Likelihood Classes

Certain 10	Has happened before and is expected to happen on this occasion.
Very Likely 8	Has happened before and is likely to happen on this occasion.
Probable 6	Has been known to occur before and is likely to happen on this occasion.
Possible 4	Has been known to occur before and it may happen on this occasion.
Unlikely 2	Has been known to happen before but no reason to suggest that it will happen on this occasion.
Very Unlikely 1	Has never happened before and there are no reasons to suggest it will happen on this occasion.

Periplum 7 Alleys- Show Spec & RA - DRAFT

Impossible 0	Has never happened and could not happen on this occasion

Residual Risk

SCORE	DEFINITION	RESIDUAL RISK
25 to 100	Level of risk is unacceptable.	HIGH
13 to 24	Level of risk may be tolerable. Seek to reduce level of risk.	MEDIUM
1 to 12	Level of risk is acceptable.	LOW
0	No risk identified	N/A

HIGH	activity presents unacceptable levels of risk and should not be undertaken
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MEDIUM activity presents risk which are partially controlled and further measures should be taken

LOW risks adequately controlled and the activity presents a low level of risk.

N/A no risks identified or risk rating system inappropriate.

APPENDICES

A. Draft Generic Site Plan

- **B. On-Site Draft Production Schedules**
- **C.** Pyrotechnics Risk Assessment

D. Periplum Insurance Cert

E. Watchtower Structural Engineer Report