

Hang Gliding and Paragliding

Environmental Management Programme

**ANNEXURE NO. 1**

**PARAGLIDING AND HANG GLIDING LAUNCH SITES  
IN THE TABLE MOUNTAIN NATIONAL PARK**

Abbreviated as

PG and HG Sites in the TMNP

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## **SIGNAL HILL LAUNCH SITES**

### **SITE RULES:**

- SAHPA membership or temporary membership required
- WILD card required
- Advance Grade License (paragliding); C Grade License (Hang gliding)
- Launching from designated sites only; Signal Hill North (1; Buttress); Signal Hill North (2; Aerial); Signal Hill Central (Bench).
- No Slope Landings (emergency only)
- No night flying
- Do NOT damage vegetation
- Curb foul language; especially in presence of general public
- Penalty for launching from non-designated area:  
First offence; R250-00  
Second offence R500-00  
Third offence: Banning from site by Parks Authorities
- Technical requirements to fly the sites:

#### Paragliding

Advance licence

First time pilots: 4X instructor supervised launches from each of the sites

Visiting Foreign and up-country Pilots: briefing by local pilot and supervised launch

#### Hang gliding

C licence

Sign off for B licence pilots by C licence pilots in suitable conditions.

Visiting Foreign and up-country Pilots: briefing by local pilot and supervised launch

**SITE NO. 1:      SIGNAL HILL NORTH (THE BUTTRESS)**

LOCATION: S 33° 55'. 074: E 18° 24'. 143

INTENSITY OF USEAGE

It is estimated that currently (March 2004), the site might carry in the order of 260 launches per annum; (5 per week); **Moderate useage.**

DESCRIPTION OF LAUNCH AREA:

The launch area comprises a kikuyu grass covered flat slope on underlying variably weathered Malmesbury shale bedrock. The area is located on the boundary fringe of a picnic facility.

The utilised launch area extends over approximately 12 X 10 metres.

PATH TO LAUNCH AREA:

The launch site is immediately adjacent to the bitumen car park area at the end of Signal Hill and access is via 5 metres of kikuyu lawn.

PROXIMITY TO PUBLIC AREAS:

This launch site is located within a popular visitor viewpoint and picnic area and is very in the public eye. The launch activities attract a lot of public interest with visitors usually taking up positions both in the car park and within the general picnic area.

EROSION POTENTIAL:

The kikuyu grass appears to be very hard wearing so that there is no evidence for a potential erosion problem. In addition, the site is not heavily utilized so that traffic is relatively light.

POTENTIAL FOR DAMAGE TO FYNBOS PLANTS:

There is potential for minor damage to two acacia trees (which are located virtually in the launch area) as a result of aborted launches. This would occur as the result of a glider blowing over the trees with minor damage to these occurring when the glider is retrieved.

RECOMMENDED PREPARATION OF LAUNCH AREA:

- It would be very much appreciated if the two acacia trees could be transplanted elsewhere in the picnic area and removed from the launch area. This is not essential though might protect the trees and make landings and launches safer and easier.
- This launch site needs to be incorporated with future development in the area – consult with SANParks Planning Department.

## **SITE NO. 2: SIGNAL HILL NORTH (THE AERIAL)**

**LOCATION: S 33° 55' . 023; E 18° 24' . 226**

### **INTENSITY OF USEAGE:**

It is estimated that currently (March 2004), the site might carry in the order of 100 launches per annum; (2 per week); **Low useage.**

### **DESCRIPTION OF LAUNCH AREA:**

The launch area comprises a kikuyu grass covered recreational picnic area. The utilised launch area extends over approximately 12 X 10 metres. Ahead of this, where the slope steepens a little, longer veld type indigenous grass is present.

### **PATH TO LAUNCH AREA:**

The path to the launch area is relatively short, in the order of 50 metres, and crosses regolith gravelly Malmesbury shales through bushy fynbos and lesser invasive Rooikrantz acacia.

The access path extends from the car park to the trig survey beacon at the crest of the Lions rump; it is an established, if unmaintained path.

### **PROXIMITY TO PUBLIC AREAS:**

Although this launch site is located relatively close to the terminal Signal Hill car park and tourist viewpoint, because of its relatively concealed position, it is largely out of site to the public. The launch activities attract relatively little public attention with not too many members of public deviating their viewing to watch the launch itself (though the soaring flight is watched with much enthusiasm).

### **EROSION POTENTIAL:**

The kikuyu grass appears to be very hard wearing so that there is no evidence for a potential erosion problem. In addition, the site is not heavily utilized so that traffic is relatively light.

### **POTENTIAL FOR DAMAGE TO FYNBOS PLANTS:**

Minor trampling of veld grass ahead of the launch area could occur in the event of aborted take-offs. The site is rarely used and this aspect does not appear to have been a problem to date.

### **RECOMMENDED PREPARATION OF LAUNCH AREA:**

- No additional preparation is deemed necessary at this site.
- On going monitoring of the grasses immediately ahead of the launch site should be conducted on an annual basis.

**SITE NO. 3:      SIGNAL HILL CENTRAL (THE BENCH)**

LOCATION: S 33° 55′ . 287; E 18° 23′ . 858

INTENSITY OF USEAGE:

It is estimated that currently (March 2004), the site might carry in the order of 1000 launches per annum; (20 per week); **Very High useage.**

DESCRIPTION OF LAUNCH AREA:

The launch area comprises an extensively denuded Malmesbury shale bedrock substrate with clumps of large indigenous bush encircling it.

The utilised launch area extends over approximately 15 X 20 metres. Ahead of this, where the slope steepens, bushy fynbos is present.

PATH TO LAUNCH AREA:

The path to the launch area is relatively short, in the order of 50 metres, and crosses mostly Malmesbury shale bedrock. This access path is an existing hiking trail along the crest of Signal Hill and extends from the car park, through the launch area and traverses on toward the Kramat and ultimately, Lions Head itself.

PROXIMITY TO PUBLIC AREAS:

This launch site is located relatively close to the central Signal Hill car park and is a popular tourist viewpoint with a permanent bench for relaxed viewing. The launch activities attract moderate public attention with members of the public often arriving to watch the launching and model aircraft flying which is generally happening at the same time.

EROSION POTENTIAL:

This site takes a lot of traffic from the paragliders, hang gliders and model aircraft flyers. The vegetation has been denuded (summer) though appears to recover temporarily in winter. The exposed angular Malmesbury shales, though unsightly and not very user friendly are nevertheless relatively erosion resistant.

Investigate surface options in conjunction with SANParks Planning Department.

POTENTIAL FOR DAMAGE TO FYNBOS PLANTS:

Within the dedicated launch area, vegetation has essentially been trampled to total eradication. Behind the launch area, bushy vegetation is occasionally briefly trampled during top-landings. This area spans some 25 x 25 metres.

RECOMMENDED PREPARATION OF LAUNCH AREA:

- Some form of surface armouring should be provided to enhance the safety of the launch area and improve the appearances. This should cover the dedicated launch area spanning 20 x 15 metres. Roller compacted ferricrete gravel could be successful in this respect.
- Removal of the spectator bench to a position away from the immediate launch area.
- On going monitoring of the bushy fynbos immediately behind the launch area should be conducted on a regular basis to assess the impact of top-landing there. Regular photography could be useful in this respect. Anthony Allen has taken photos of the take off area.
- No removal of vegetation shall be permitted at this stage – consult with SANParks Planning Department.

## **LIONS HEAD LAUNCH SITES**

### **SITE RULES:**

- SAHPA membership or temporary membership required
- WILD card required
- Launching from designated sites only; Top & Lower Take-off sites
- No night flying
- Do NOT damage vegetation
- Curb foul language; especially in presence of general public
- Penalty for launching from non-designated area:  
First offence; R250-00  
Second offence R500-00  
Third offence: Banning from site by Parks Authorities
- Technical requirements to fly the sites:

#### Paragliding

Basic licence; 40 flights

First time pilots: 4X instructor supervised launches from each of the sites

Visiting Foreign and up-country Pilots: briefing by local pilot and supervised launch

#### Hanggliding

C licence

Sign off for B licence pilots by C licence pilot in suitable conditions

Visiting Foreign and up-country Pilots: briefing by local pilot and supervised launch



**SITE NO. 4:      LIONS HEAD LOWER LAUNCH SITE**

LOCATION: S 33° 56'. 291: E 18° 23'. 297

INTENSITY OF USEAGE

It is estimated that currently (March 2004), the site might carry in the order of 2600 launches per annum; (50 per week); **very high useage.**

DESCRIPTION OF LAUNCH AREA:

The launch area comprises a net covered, gabion stabilized steep slope in residual (decomposed) Granite.

The utilised launch area extends over approximately 12 X 10 metres.

PATH TO LAUNCH AREA:

Access to the launch area is by way of the existing jeep track; the launch is located where the jeep track ends and the footpath proper begins.

PROXIMITY TO PUBLIC AREAS:

This launch site is located immediately adjacent to the main walking route to the top of Lions Head. The launch activities attract a lot of public interest with visitors usually taking up standing positions on the adjacent jeep track.

EROSION POTENTIAL:

The potential for any serious erosion is theoretically very low due to the armoured protection of the gabion stabilized surface. However, in practise the area is too small and has no allowance for aborted launches. Beyond the gabions, the ground is soil only and erosion will ensue with repeated excursions off the armouring.

POTENTIAL FOR DAMAGE TO FYNBOS PLANTS:

There is potential for damage to silver trees and other bushy fynbos in the immediately adjacent area as a result of aborted launches. These usually entail the glider landing in adjacent bush and silver trees with damage to these occurring when the glider is retrieved. In addition the useage rate is very high (highest of all the Park sites) so that cumulative abortive launches are already damaging the immediately adjacent vegetation.

RECOMMENDED PREPARATION OF LAUNCH AREA:

- Periodic trimming of the vegetation encroaching the launch area and trimming of any vegetation that inhibits the launch will be considered by the PHWC.
- Current status is the site is to be used as it is until improvements are agreed too by SANParks to trim dead branches of Silver trees only.
- SANParks to investigate proposed additions to launch site with the Planning Department.

(See separate proposal for this launch site Annexure 2 – Site Improvements)

## **SITE NO. 5: LIONS HEAD TOP LAUNCH SITE**

**LOCATION: S 33° 56′. 059; E 18° 23′. 248**

### **INTENSITY OF USEAGE:**

It is estimated that currently (March 2004), the site might carry in the order of 1800 launches per annum; (35 per week); **High useage.**

### **DESCRIPTION OF LAUNCH AREA:**

The launch area comprises a net covered, gabion stabilized steep slope in sub-outcropping sandstone bedrock and boulder/gravel scree.

The utilised launch area extends over approximately 12 X 10 metres.

### **PATH TO LAUNCH AREA:**

The path to the launch area is relatively short, in the order of 50 metres, and crosses mainly bedrock sandstone and to a lesser extent, gravel/boulder scree overlying bedrock. The access path departs from the main Lions Head footpath on the northern side of the mountain, just as Clifton comes into view.

Two paths in fact (close to each other) exist and efforts should be made to confine access to only one of the paths.

### **PROXIMITY TO PUBLIC AREAS:**

Although this launch site is located relatively close to the main Lions Head summit path, because of its concealed position, it is relatively out of site to passing hikers. The launch activities attract relatively little public attention with not too many members of public deviating their walk to watch.

### **EROSION POTENTIAL:**

The potential for any serious erosion is very low due to the armoured protection of the gabion stabilized surface. Aborted take-offs are relatively infrequent at this site, and when they do occur are due to southerly winds so that the gliders blow across rock outcrop on the northern side of the launch area.

### **POTENTIAL FOR DAMAGE TO FYNBOS PLANTS:**

Minor trampling of scrubby fynbos occurs on the edge of the prepared launch site when aborted launches occur. These are relatively infrequent, though the useage of the site is high.

### **RECOMMENDED PREPARATION OF LAUNCH AREA:**

- No additional preparation is deemed necessary at this site.
- On going monitoring of the vegetation immediately adjacent to the launch site should be conducted on an annual basis.

## TABLE MOUNTAIN LAUNCH SITES

### SITE RULES:

- SAHPA membership or temporary membership required
- WILD card required
- Valid TM card (by approval of Safety Committee to qualifying Club members) or Visitor Card with Approved pilot supervision required
- Sign register at Cable Station
- Launching from designated sites only; Gully; Front Face; Runway; Maclears; Apostles
- No night flying
- No Tandem Launching
- Do NOT damage vegetation
- Curb foul language; especially in presence of general public
- Penalty for launching from non-designated area:  
First offence; R250-00  
Second offence R500-00  
Third offence: Banning from site by Parks Authorities
- Technical requirements to fly the sites:  
  
PARAGLIDING: Sport licence; 200 flights  
First time pilots: 2X supervised launches from Gully and Front Face sites  
  
HANG GLIDING: C licence. No sign offs.

**SITE NO. 6:      TABLE MOUNTAIN GULLY**

**LOCATION: S 33° 57.616; E 18° 24.363**

**INTENSITY OF USEAGE:**

It is estimated that currently (March 2004), the site might carry in the order of 500 launches per annum; (10 per week; if that); moderate useage.

**DESCRIPTION OF LAUNCH AREA:**

The launch area comprises loose, angular, sandstone small-boulder scree, on subout-cropping sandstone bedrock. Clumps of spiky restia cover some 30% of the area. The utilised launch area extends over approximately 30 X 30 metres.

**PATH TO LAUNCH AREA:**

The path to the launch area is very short, in the order of 10 metres, and crosses ground as described for the launch itself.

**PROXIMITY TO PUBLIC AREAS:**

This launch site is located immediately adjacent to the main walkway from the Restaurant to the top of the Platteklip gorge descent. The launch activities do attract a lot of public interest with visitors usually taking up sitting positions on the rocky outcrops in the general vicinity.

**EROSION POTENTIAL:**

The potential for any serious erosion is very low due to the sub-outcropping sandstone bedrock substrate. In addition the useage rate is currently low so that human traffic wearing intensity is also very low.

**POTENTIAL FOR DAMAGE TO FYNBOS PLANTS:**

There is potential for damage to restias in the immediate (30X30 m) launch area. However, these number only about 30 and it is recommended that they be removed in the area of the dedicated launch site. There is sufficient extensive rock outcrop in the adjacent area that spectators should have little if any impact on natural vegetation.

**RECOMMENDED PREPARATION OF LAUNCH AREA:**

- The site is to be left as is and monitored.
- Fence the area off and place a gate with signage indicating Paragliding / Hang Gliding site.
- Photo's of the area need to be taken to assist with the monitoring process.

## **SITE NO. 7: TABLE MOUNTAIN FRONT FACE**

**LOCATION: S 33° 57.723; E 18° 24.702**

### **INTENSITY OF USEAGE:**

It is estimated that currently (March 2004), the site might carry in the order of 250 launches per annum; (5 per week; if that); moderately low useage.

### **DESCRIPTION OF LAUNCH AREA:**

The launch area is located upon a small, elevated (5 metres) hard rock mini-mesa, some 200 metres east of Platteklip gorge. The ground itself comprises massive bedrock sandstone with patchy fynbos vegetation covering some 15% of the surface. The launch area used is in the order of 30 X 30 metres.

### **PATH TO LAUNCH AREA:**

The path to the launch area is very short, in the order of 50 metres, and crosses mainly bedrock sandstone and to a lesser extent, gravel/boulder scree overlying bedrock.

### **PROXIMITY TO PUBLIC AREAS:**

Although this launch site is located close to the main front face path between Platteklip and Maclears beacon, because of its elevated position, it is quite out of site. The launch activities attract relatively little public attention with not too many members of public walking in the general area.

### **EROSION POTENTIAL:**

The potential for erosion is nil due to the outcropping sandstone bedrock substrate. In addition the useage rate is currently low so that human traffic wearing intensity is also very low.

### **POTENTIAL FOR DAMAGE TO FYNBOS PLANTS:**

There is potential for damage to fynbos in the immediate (30X30 m) launch area. However, these plants are relatively limited in number and it is recommended that they be removed in the area of the dedicated launch site.

There is sufficient extensive rock outcrop in the adjacent area that spectators should have little if any impact on natural vegetation.

### **RECOMMENDED PREPARATION OF LAUNCH AREA:**

- Site to be kept open on condition of monitoring the site and footpath. Should more degradation occur the site will be closed.
- Photo's of the area need to be taken to assist with the monitoring process.

**SITE NO. 8: TABLE MOUNTAIN RUNWAY**

LOCATION: S 33° 57.707; E 18° 24.683

INTENSITY OF USEAGE:

It is estimated that currently (March 2004), the site might carry in the order of 50 launches per annum; (1 per week; if that); very low useage.

DESCRIPTION OF LAUNCH AREA:

The launch area comprises mostly outcropping sandstone bedrock, with a lesser patchy distribution of thin sandy gravel colluvium. Low scrub type fynbos covers an estimated 50% of the utilized launch area (30 X 30 metres).

PATH TO LAUNCH AREA:

The site is located on the existing front face pathway, some 100 metres east of Platteklip gorge and immediately adjacent to (at the base of) the more generally used, elevated Front Face launch site.

PROXIMITY TO PUBLIC AREAS:

Although this launch site is located on the main front face path between Platteklip and Maclears beacon, the launch activities attract relatively little public attention with not too many members of public walking in the general area. Those that do occasionally watch locate themselves on the adjacent outcrop.

EROSION POTENTIAL:

The potential for any serious erosion is very low due to the outcropping sandstone bedrock substrate. In addition the useage rate is currently low so that human traffic wearing intensity is also very low.

POTENTIAL FOR DAMAGE TO FYNBOS PLANTS:

There is potential for limited damage to fynbos in the immediate (30X30 m) launch area. However, due to the very low useage of the site, this is not expected to be a problem. Ongoing monitoring could address this issue and it is believed that, at this stage, it is unnecessary to remove vegetation for a dedicated launch area.

RECOMMENDED PREPARATION OF LAUNCH AREA:

- It is recommended that nothing be done in the way of site preparation at this stage and that the general condition be monitored on a yearly basis.
- Site to be kept open on condition of monitoring the site and footpath. Should more degradation occur the site will be closed.
- Photo's of the area need to be taken to assist with the monitoring process.

**SITE NO. 9:      TABLE MOUNTAIN MACLEARS**

**LOCATION: S 33° 58.034; E 18° 25.660**

**INTENSITY OF USEAGE:**

It is estimated that currently (March 2004), the site might carry in the order of 50 launches per annum; (1 per week; if that); very low useage. This site may not be used more than 50 launches per annum, and will be monitored by PHWC and SANParks staff.

**DESCRIPTION OF LAUNCH AREA:**

The launch area comprises, small, angular, sandstone boulder scree, with low scrubby fynbos cover over an estimated 50% of the area.

The utilised launch area extends over approximately 30 X 30 metres.

**PATH TO LAUNCH AREA:**

The path to the launch area is in the order of 100 metres, and crosses ground as described for the launch itself, together with areas of exposed bedrock.

**PROXIMITY TO PUBLIC AREAS:**

This launch site is located some 100 metres east of Maclears beacon, at a position concealed from the beacon by a ridge of rock. The launch site is well off the beaten track and attracts essentially zero passing public spectators.

**EROSION POTENTIAL:**

The potential for any serious erosion is low primarily due to the extremely low useage of the site. This is due to its unfavourable orientation with respect to common wind directions (east facing) as well as the distance that needs to be walked to reach it. It is, however a spectacular site on those few occasions when it can be used.

**POTENTIAL FOR DAMAGE TO FYNBOS PLANTS:**

There is potential for limited damage to fynbos in the immediate (30X30 m) launch area. However, due to the very low useage of the site, this is not expected to be a problem. Ongoing monitoring could address this issue and it is believed that, at this stage, it is unnecessary to remove vegetation for a dedicated launch area.

**RECOMMENDED PREPARATION OF LAUNCH AREA:**

- It is recommended that nothing be done in the way of site preparation at this stage and that the general condition be monitored on a yearly basis.

**SITE NO. 10:      TABLE MOUNTAIN ABOVE KIRSTENBOSCH**

LOCATION: S 33° 59.501; E 18° 24.955

INTENSITY OF USEAGE:

This site has not been used frequently in the past but we would estimate that the site would carry in the region of 2 launches per week.

**This site is to be accessed by permit only.** Permits can be obtained from the relevant Assistant Section Ranger at the Mt Pleasant office on (021) 689 4441, during office hours (Monday to Thursday: 07:15 – 16:45; Fridays: 07:15 – 15:30). Hours of use will be determined according to the use of the Hoerikwaggo overnight facility.

DESCRIPTION OF LAUNCH AREA:

The site is located on the slope top behind the two small stone houses which are just off the concrete road from Constantia Nek to the reservoirs. The launch area comprises a moderately steep slope in a large area of knee high fynbos which is mainly restio grasses.

PATH TO LAUNCH AREA:

There is already an established path to the two houses. The launch area and preparation area start where the grass of the second house finishes.

PROXIMITY TO PUBLIC AREAS:

The public may be using the concrete road for hiking but the launch area is approximately 100m away.

EROSION POTENTIAL:

The slope is very thick with restio grasses which with the low site usage due to the difficulty of getting to the site will reduce the erosion potential.

POTENTIAL FOR DAMAGE TO FYNBOS PLANTS:

There is potential for damage to restios growing in the area of take off. However the low site usage due to the difficulty of getting to the site will reduce the potential for damage.

RECOMMENDED PREPARATION OF LAUNCH AREA:

It is recommended that nothing be done at present but the site should be monitored on an ongoing basis to assess the situation.



## **DEVILS PEAK LAUNCH SITE**

### **SITE RULES:**

- SAHPA membership or temporary membership required
- WILD card required
- Launching from designated sites only
- No night flying
- Do NOT damage vegetation
- Curb foul language; especially in presence of general public
  
- Penalty for launching from non-designated area:  
First offence; R250-00  
Second offence R500-00  
Third offence: Banning from site by Parks Authorities
  
- Technical requirements to fly the sites:  
  
PARAGLIDING: Basic licence; 40 flights  
  
First time pilots: supervised launch.  
Visiting Foreign and up-country Pilots: briefing by local pilot and supervised launch.  
  
HANG GLIDING: C licence. Sign off for B licence pilots by C licence pilots who are familiar with the site.

**SITE NO. 11:      **DEVILS PEAK****

LOCATION: **S 33° 56'. 777: E 18° 26'. 353**

INTENSITY OF USEAGE

It is estimated that currently (March 2004), the site might carry in the order of 60 launches per annum; (1 per week); **Low useage.**

DESCRIPTION OF LAUNCH AREA:

The launch area comprises a moderately steep slope covered with knee length fynbos and located on scree sandstone.

The utilised launch area extends over an area of approximately 25 X 10 metres.

PATH TO LAUNCH AREA:

Access to the launch area is from the end point of the Tafelberg road (at the parking area and gate) by an existing minor footpath, on the mountainside of the road. The initial section is steep and highly erodible.

PROXIMITY TO PUBLIC AREAS:

This launch site is located above the terminal parking lot of the Tafelberg road and as such would attract the attention of any site seers there. The launch activities attract moderate public interest with visitors usually taking up viewing positions on the road itself.

EROSION POTENTIAL:

The short fynbos appears to be hard wearing and there is no evidence as yet of an erosion problem. This is probably particularly due to the very light pedestrian traffic experienced.

POTENTIAL FOR DAMAGE TO FYNBOS PLANTS:

The short fynbos appears to be hard wearing and there is no evidence as yet of damage to the plants. This is probably particularly due to the very light pedestrian traffic load currently being experienced.

RECOMMENDED PREPARATION OF LAUNCH AREA:

- It is recommended that the site be left exactly as it is at the present time and that it is monitored on an ongoing basis with respect to erosion and damage to vegetation.

## **SILVER MINE LAUNCH SITES**

### **SITE RULES:**

- SAHPA membership or temporary membership required
- WILD card required
- Local Pilots: access by ID register at entrance gate;
- Guest pilots to be accompanied by local pilot.
- Advance Grade License (paragliding); Basic under supervision  
B grade licence (hang-gliding). No A sign offs. Some sites C grade.
- Launching from designated sites only
- 4x4 vehicle access; 2x4 hi clearance vehicle with diff-lock; Recovery driver required and no vehicle to be left unattended!
- Maximum of 2 vehicles will be allowed
- Entry are restricted to 1 hour before gate closing time (not exit time)
- No night flying
- Do NOT damage vegetation
- Curb foul language; especially in presence of general public
- Penalty for launching from non-designated area:  
First offence; R250-00  
Second offence R500-00  
Third offence: Banning from site by Parks Authorities

**SITE NO. 12: SILVERMINE - SOUTH**

**LOCATION: S 34° 04'. 428: E 18° 22'. 862**

**INTENSITY OF USEAGE**

It is estimated that currently (March 2004), the site might carry in the order of 50 launches per annum; (4 per month); **Low useage.**

**DESCRIPTION OF LAUNCH AREA:**

The launch area comprises a relatively flat slope which is uniformly covered with short (ankle length) fynbos vegetation; and terminating in exposed sandstone bedrock. The utilised launch area extends over approximately 25 X 20 metres.

**ACCESS AND DIRECTIONS:**

Enter Silvermine reserve by the boom and office on the North side of Ou Kaapse Weg. Show Wild card and club membership card to the Park officials. Obtain key for boom at reservoir car park.

Drive along tar road to reservoir car park. Go through boom and relock gate. Drive up the access road on the Western side of the reserve. Park just off this access road at the start of the path to launch area.

Retrieve driver to return key to office.

**PATH TO LAUNCH AREA:**

The launch site is accessed by departure from the main Trig Beacon lookout path, for a distance of some fifty metres. This route crosses short fynbos and comprises an undeveloped but obvious path. This access path could be susceptible to erosion as per the adjacent pathway to the Trig Beacon if it carried more human traffic. At this stage traffic volume is very minimal.

**PROXIMITY TO PUBLIC AREAS:**

This launch site is located within close proximity to a relatively popular visitor viewpoint (The Trig Beacon overlooking Hout Bay) and as such is in the public eye. However, the public there is limited to hikers who have walked for at least an hour so that numbers at any given time are extremely limited. The launch activities consequently attract little public interest.

**EROSION POTENTIAL:**

The short fynbos appears to be hard wearing and there is no evidence as yet of an erosion problem. This is probably particularly due to the very light traffic, which in turn is due to the amount of effort required to reach the site from town.

POTENTIAL FOR DAMAGE TO FYNBOS PLANTS:

The short fynbos appears to be hard wearing and there is no evidence as yet of damage to the plants. This is probably particularly due to the very light traffic load, which in turn is due to the amount of effort required to reach the site from town.

RECOMMENDED PREPARATION OF LAUNCH AREA:

- It is recommended that the site be left exactly as it is at the present time and that it be monitored on an ongoing basis with respect to erosion and damage to vegetation.
- The Fitzpatrick institute will be consulted regarding Black Eagles nesting in the area.
- The Fitzpatrick institute has to inform PHWC on impact to raptors on site.

**SITE NO. 13: SILVERMINE – SOUTH WEST (TRIG BEACON)**

**LOCATION: S 34° 04'. 385; E 18° 22'. 808**

**INTENSITY OF USEAGE:**

It is estimated that currently (March 2004), the site might carry in the order of 120 launches per annum; (10 per month); **Moderate useage.**

**DESCRIPTION OF LAUNCH AREA:**

The launch area comprises a relatively steep slope, which is uniformly covered with short (knee length) fynbos vegetation; and terminates in exposed sandstone bedrock. The utilised launch area extends over approximately 25 X 20 metres.

**ACCESS AND DIRECTIONS:**

Enter Silvermine reserve by the boom and office on the North side of Ou Kaapse Weg. Show Wild card and club membership card to the Park officials. Obtain key for boom at reservoir car park.

Drive along tar road to reservoir car park. Go through boom and relock gate afterwards. Drive up the access road on the Western side of the reserve. Park just off this access road at the start of the path to launch area.

Retrieve driver to return key to office.

**PATH TO LAUNCH AREA:**

The launch site is accessed by departure from the main Trig Beacon lookout path, for a distance of some twenty metres. This route traverses short virgin fynbos and comprises an undeveloped route (no path as such). This access route could be susceptible to erosion as per the adjacent pathway to the Trig Beacon if it carried more human traffic. At this stage traffic volume is very minimal.

**PROXIMITY TO PUBLIC AREAS:**

This launch site is located within very close proximity to a relatively popular visitor viewpoint (The Trig Beacon overlooking Hout Bay) and as such is in the public eye. However, the public presence there is limited to hikers who have walked for at least an hour so that numbers at any given time are extremely limited. The launch activities consequently attract little public interest.

**EROSION POTENTIAL:**

The short fynbos appears to be hard wearing and there is no evidence as yet of an erosion problem. This is probably particularly due to the very light traffic, which in turn is due to the amount of effort required to reach the site from town.

**POTENTIAL FOR DAMAGE TO FYNBOS PLANTS:**

The short fynbos appears to be hard wearing and there is no evidence as yet of damage to the plants. This is probably particularly due to the very light traffic load, which in turn is due to the amount of effort required to reach the site from town.

**RECOMMENDED PREPARATION OF LAUNCH AREA:**

- It is recommended that the site be left exactly as it is at the present time and that it is monitored on an ongoing basis with respect to erosion and damage to vegetation.
- The Fitzpatrick institute will be consulted regarding Black Eagles nesting in the area.

**SITE NO. 14: SILVERMINE – WEST**

**This site will be closed until SANParks has rehabilitated the proposed launch site, after which the site will be re-opened again and Silvermine Fence-West will be closed.**

**LOCATION: S 34° 04' . 256; E 18° 22' . 879**

**INTENSITY OF USEAGE:**

It is estimated that currently (March 2004), the site might carry in the order of 36 launches per annum; (3 per month); **low useage.**

**DESCRIPTION OF LAUNCH AREA:**

The launch area comprises a flat slope, which is patchily covered with short (knee length) fynbos vegetation and intermittent sub-outcropping bedrock sandstone. The utilised launch area extends over approximately 25 X 20 metres.

**ACCESS AND DIRECTIONS:**

Enter Silvermine reserve by the boom and office on the North side of Ou Kaapse Weg. Show Wild card and club membership card to the Park officials. Obtain key for boom at reservoir car park.

Drive along tar road to reservoir car park. Go through boom and relock gate afterwards. Drive up the access road on the Western side of the reserve. Park just off this access road at the start of the path to launch area.

Retrieve driver to return key to office.

**PATH TO LAUNCH AREA:**

The launch site is accessed by an existing gravel vehicle track. This access route is not susceptible to erosion by pedestrian traffic. In addition, at this stage, pedestrian traffic volume is very minimal.

**PROXIMITY TO PUBLIC AREAS:**

This launch site is very much out of view to all but passing hikers on the cliff top circular hiking route. These hikers mostly would have walked for at least an hour so that numbers at any given time are extremely limited. The launch activities consequently attract little public interest.

**EROSION POTENTIAL:**

The short fynbos appears to be hard wearing and there is no evidence as yet of an erosion problem. This is probably particularly due to the very light traffic, which in turn is due to the amount of effort required to reach the site from town.

**POTENTIAL FOR DAMAGE TO FYNBOS PLANTS:**

The short fynbos appears to be hard wearing and there is no evidence as yet of damage to the plants. This is probably particularly due to the very light traffic load, which in turn is due to the amount of effort required to reach the site from town.



RECOMMENDED PREPARATION OF LAUNCH AREA:

- It is recommended that the site be left exactly as it is at the present time and that it is monitored on an ongoing basis with respect to erosion and damage to vegetation.
- The Fitzpatrick institute will be consulted regarding Black Eagles nesting in the area.

**SITE NO. 15: SILVERMINE - FENCE WEST**

**This site will be open until SANParks has rehabilitated the proposed launch site at Silvermine - West, after which this site will be closed and Silvermine – West will be re-opened.**

**LOCATION: S 34° 04' . 063; E 18° 22' . 868**

**INTENSITY OF USEAGE:**

It is estimated that currently (March 2004), the site might carry in the order of 60 launches per annum; (5 per month); **Moderate useage.**

**DESCRIPTION OF LAUNCH AREA:**

The launch area comprises a relatively flat slope, which is uniformly covered with short (ankle length) fynbos vegetation and terminates in exposed sandstone bedrock. The utilised launch area extends over approximately 25 X 20 metres.

**ACCESS AND DIRECTIONS:**

Enter Silvermine reserve by the boom and office on the North side of Ou Kaapse Weg. Show Wild card and club membership card to the Park officials. Obtain key for boom at reservoir car park.

Drive along tar road to reservoir car park. Go through boom and relock gate afterwards. Drive up the access road on the Western side of the reserve. Park just off this access road at the start of the path to launch area.

Retrieve driver to return key to office.

**PATH TO LAUNCH AREA:**

The launch site is accessed by departure from the main gravel road, along an ill-defined track which runs above Chapmans Peak Drive for a distance of some one hundred metres. The route traverses short virgin fynbos. This access route could be susceptible to erosion if it carried more pedestrian traffic. At this stage such traffic volume is very minimal.

**PROXIMITY TO PUBLIC AREAS:**

This launch site is very much out of view to all but passing hikers on the cliff top circular hiking route. These hikers mostly would have walked for at least an hour so that numbers at any given time are extremely limited. The launch activities consequently attract little public interest.

EROSION POTENTIAL:

The short fynbos appears to be hard wearing and there is no evidence as yet of an erosion problem. This is probably particularly due to the very light traffic, which in turn is due to the amount of effort required to reach the site from town.

POTENTIAL FOR DAMAGE TO FYNBOS PLANTS:

The short fynbos appears to be hard wearing and there is no evidence as yet of damage to the plants. This is probably particularly due to the very light traffic load, which in turn is due to the amount of effort required to reach the site from town.

RECOMMENDED PREPARATION OF LAUNCH AREA:

- It is recommended that the site be left exactly as it is at the present time and that it is monitored on an ongoing basis with respect to erosion and damage to vegetation.

**SITE NO. 16: SILVERMINE - ST. JAMES**

LOCATION: **S34° 06.807; E18°27.429**

INTENSITY OF USEAGE:

It is estimated that currently (March 2004), the site might carry in the order of 30 – 60 launches per annum; (3 per month); **Low Useage.**

DESCRIPTION OF LAUNCH AREA:

The launch area comprises a slope, which is uniformly covered with very short fynbos vegetation overlying occasionally outcropping sandstone bedrock. The utilised launch area extends over approximately 30 X 25 metres. Formalise launch area as required.

ACCESS:

By foot only on recognised footpaths.

PROXIMITY TO PUBLIC AREAS:

This launch site is very much out of view to all but passing hikers on the cliff top circular hiking route. These hikers mostly would have walked for at least an hour so that numbers at any given time are extremely limited. The launch activities consequently attract little public interest.

EROSION POTENTIAL:

The short fynbos appears to be hard wearing and there is no evidence as yet of an erosion problem. This is probably particularly due to the very light traffic, which in turn is due to the amount of effort required to reach the site from town.

POTENTIAL FOR DAMAGE TO FYNBOS PLANTS:

The short fynbos appears to be hard wearing and there is no evidence as yet of damage to the plants. This is probably particularly due to the very light traffic load, which in turn is due to the amount of effort required to reach the site from town.

RECOMMENDED PREPARATION OF LAUNCH AREA:

- It is recommended that the site be left exactly as it is at the present time and that it is monitored on an ongoing basis with respect to erosion and damage to vegetation.

**SITE NO. 17: SILVERMINE – CONSTANTIBERG SE**

LOCATION: S 34°03'.281; E 18°23'.279

INTENSITY OF USEAGE:

Paragliding: It is estimated that currently (March 2004), the site might carry in the order of 30 launches per annum; (2 per month); **Moderate useage**.

Hang Gliding: It is estimated that currently (March 2004), the site might carry in the order of 30 launches per annum; (3 per month); **Low useage**.

DESCRIPTION OF LAUNCH AREA:

Paragliding: The launch area comprises a relatively flat slope, which is uniformly covered with short (knee length) fynbos vegetation and terminates in exposed sandstone bedrock. The utilised launch area extends over approximately 25 X 20 metres.

Hang Gliding: The launch area is the edge of the tar road just before it meets the gate at the mast. It comprises a steep slope which is a mixture of grasses and small rocks. The utilised launch area extends over approximately 25 X 10 meters.

ACCESS AND DIRECTIONS:

Obtain permission to access the site from Chris Botes of SAFCOL (082 411 3544) and in the future from TMNP. Site is accessed from the cyclists parking area near Tokai manor house in the SAFCOL plantation. Obtain key for gate from attendant.

Drive to the mast on top of Constantiaberg exercising extreme caution for horses and cyclists. Drivers to approach blind corners with caution.

Retreive driver to return key.

PATH TO LAUNCH AREA:

Paragliding: The launch site is accessed just above the tar road, along the side of the fenced-in Sentech mast enclosure then along an ill-defined track for a distance of some ten metres. The route traverses short virgin fynbos. This access route could be susceptible to erosion if it carried more pedestrian traffic. At this stage such traffic volume is very minimal.

Hang Gliding: There is no path as the launch site is the side of the tar road just before the mast.

PROXIMITY TO PUBLIC AREAS:

This launch site is very much out of view to all but passing hikers on the cliff top circular hiking route. These hikers mostly would have walked for at least an hour so that numbers at any given time are extremely limited. The launch activities consequently attract little public interest.

EROSION POTENTIAL:

Paragliding: The short fynbos appears to be hard wearing and there is no evidence as yet of an erosion problem. This is probably particularly due to the very light traffic, which in turn is due to the amount of effort required to reach the site from town.

Hang Gliding: Very minimal damage. Launch is done in a moderate wind requiring only one or two steps and these mainly on rock.

POTENTIAL FOR DAMAGE TO FYNBOS PLANTS:

The short fynbos appears to be hard wearing and there is no evidence as yet of damage to the plants. This is probably particularly due to the very light traffic load, which in turn is due to the amount of effort required to reach the site from town.

RECOMMENDED PREPARATION OF LAUNCH AREA:

- It is recommended that the site be left exactly as it is at the present time and that it is monitored on an ongoing basis with respect to erosion and damage to vegetation.
- Vehicles limited to a maximum of two.
- No vehicles to be parked along the road – Paragliders and Hang Gliders to be dropped off and vehicles to leave the area.
- Hikers on route – vehicles must be down by 09:30 and are permitted to go up after 13:30 (5 minute drop of time)
- No hikers – vehicles permitted between 09:30 and 13:30 (1 hour drop off time)
- No vehicles to be left unattended.
- 30 – 60 launches per annum.

**SITE NO. 18: SILVERMINE - CONSTANTIBERG WEST**

**LOCATION: S34°02.870; E18°23.264**

**INTENSITY OF USEAGE:**

It is estimated that currently (March 2004), the site might carry in the order of 10 launches per annum; (1 per month); **Very Low useage.**

**DESCRIPTION OF LAUNCH AREA:**

The launch area comprises a slope which is covered with short (knee length) fynbos vegetation and outcrops of sandstone bedrock. The utilised launch area extends over approximately 30 X 25 metres.

**ACCESS AND DIRECTIONS:**

Obtain permission to access the site from Chris Botes of SAFCOL (082 411 3544). Site is accessed from the cyclists parking area near Tokai manor house in the SAFCOL plantation. Obtain key for gate from attendant.

Drive on the road to the mast on top of Constantiaberg exercising extreme caution for horses and cyclists. Site is located over Hout Bay approximately 1km before the mast. Retrieve driver to return key.

**PATH TO LAUNCH AREA:**

The launch site is accessed by departure from the main tar road, along an ill-defined track by the side of the fenced-in Sentech mast enclosure for a distance of some two hundred metres. The route traverses short virgin fynbos. This access route could be susceptible to erosion if it carried more pedestrian traffic. At this stage such traffic volume is very minimal.

**PROXIMITY TO PUBLIC AREAS:**

This launch site is very much out of view to all but passing hikers on the cliff top circular hiking route. These hikers mostly would have walked for at least an hour so that numbers at any given time are extremely limited. The launch activities consequently attract little public interest.

**EROSION POTENTIAL:**

The short fynbos appears to be hard wearing and there is no evidence as yet of an erosion problem. This is probably particularly due to the very light traffic, which in turn is due to the amount of effort required to reach the site from town.

**POTENTIAL FOR DAMAGE TO FYNBOS PLANTS:**

The short fynbos appears to be hard wearing and there is no evidence as yet of damage to the plants. This is probably particularly due to the very light traffic load, which in turn is due to the amount of effort required to reach the site from town.

**RECOMMENDED PREPARATION OF LAUNCH AREA:**

- It is recommended that the site be left exactly as it is at the present time and that it is monitored on an ongoing basis with respect to erosion and damage to vegetation.
- Vehicles limited to a maximum of two.

- No vehicles to be parked along the road – Paragliders and Hang Gliders to be dropped off and vehicles to leave the area.
- Hikers on route – vehicles must be down by 09:30 and are permitted to go up after 13:30 (5 minute drop of time)
- No hikers – vehicles permitted between 09:30 and 13:30 (1 hour drop off time)
- No vehicles to be left unattended.
- 30 – 60 launches per annum.



**SITE NO. 19: SILVERMINE - FIRE BREAK**

**LOCATION: S34°04.794; E18°24.670**

**INTENSITY OF USEAGE:**

It is estimated that currently (March 2004), the site might carry in the order of 10 launches per annum; (1 per month); **Low usage.**

**ACCESS AND DIRECTIONS:**

Enter Silvermine reserve by the boom and office on the North side of Ou Kaapse Weg.

Show Wild card and club membership card to the Park officials.

Drive along tar road towards reservoir car park for about 1 km & park where a broad track goes off to the right. Firebreak is the continuation of this track as it goes over the crest of the hill.

Parking on the tar road only. Access to be considered once SAFCOL land-handover has been finalised.

**DESCRIPTION OF LAUNCH AREA:**

The launch area is from a fire break with rock outcrops and scrubby fynbos on either side.

**PATH TO LAUNCH AREA:**

The path is part of the firebreak itself.

**PROXIMITY TO PUBLIC AREAS:**

This launch site is very infrequently used but is in close proximity to the road to the Silvermine reservoir car park.

**EROSION POTENTIAL:**

None apart from aborted paraglider launches.

**POTENTIAL FOR DAMAGE TO FYNBOS PLANTS:**

None apart from aborted paraglider launches.

**RECOMMENDED PREPARATION OF LAUNCH AREA:**

- It is recommended that the site be left exactly as it is at the present time.

## **LITTLE LIONS HEAD LAUNCH SITES**

### **SITE RULES:**

- SAHPA membership or temporary membership required
- WILD card required
- Launching from designated sites only
- No night flying
- Do NOT damage vegetation
- Curb foul language; especially in presence of general public
- Penalty for launching from non-designated area:  
First offence; R250-00  
Second offence R500-00  
Third offence: Banning from site by Parks Authorities
- Technical requirements to fly the sites:

#### Paragliding

Basic licence; 40 flights

First time pilots: supervised launch.

Visiting Foreign and up-country Pilots: briefing by local pilot and supervised launch.

#### Hanggliding

B licence. No sign off for A licence due to limited landing options and complex local weather situation.

Visiting, foreign and up-country pilots; briefing by local pilot and supervised launch.

**SITE NO. 20:      LITTLE LIONS HEAD AERIAL**

**LOCATION: S 34° 00'. 791: E 18° 20'. 840**

**INTENSITY OF USEAGE**

It is estimated that currently (March 2004), the site might carry in the order of 36 launches per annum; (3 per month); **Low usage.**

**DESCRIPTION OF LAUNCH AREA:**

The launch area comprises a flat slope covered with short kikuyu grass and located on sub-outcropping Granite bedrock.

The utilised launch area extends over an area of approximately 25 X 10 metres.

**PATH TO LAUNCH AREA:**

Access to the launch area is via the tar service road to the Telkom aerials.

**ACCESS AND DIRECTIONS:**

Access is via Sentech road to aerial via Mt Rhodes turn off from Suikerbossie Hill in Hout Bay. Hang-gliders may be able to get a key for the gate and drive closer to launch. Call 551 1592 for enquiries.

**PROXIMITY TO PUBLIC AREAS:**

This launch site is located well out of the general public view, at a location where only passing hikers climbing Little Lions Head might encounter the activities. As such, the launching attracts minimal interest, with any spectators usually taking up viewing positions on the road itself.

**EROSION POTENTIAL:**

The Kikuyu grass appears to be hard wearing and there is no evidence as yet of any erosion problem.

**POTENTIAL FOR DAMAGE TO FYNBOS PLANTS:**

The site has only alien Kikuyu grass.

**RECOMMENDED PREPARATION OF LAUNCH AREA:**

- It is recommended that the site be left exactly as it is at the present time and that it is monitored on an ongoing basis with respect to erosion and damage to vegetation.

**SITE NO. 21:      LITTLE LIONS HEAD SLOPE**

**LOCATION: S 34° 00'. 877: E 18° 20'. 666**

**INTENSITY OF USEAGE**

It is estimated that currently (March 2004), the site might carry in the order of 36 launches per annum; (3 per month); **Low usage.**

**DESCRIPTION OF LAUNCH AREA:**

The launch area comprises a relatively steep slope covered with short (knee length) fynbos and local larger protea (*Leucospermum*) bushes and is located on sub-outcropping sandstone and shale bedrock.

The utilised launch area extends over an area of approximately 25 X 25 metres.

**ACCESS AND DIRECTIONS:**

Access is via Sentech road to aerial via Mt Rhodes turn off from Suikerbossie Hill in Hout Bay. Hang-gliders may be able to get a key for the gate and drive closer to launch. Call 551 1592 for enquiries.

**PATH TO LAUNCH AREA:**

Access to the launch area departs from the well-defined Little Lions Head summit path at the level where the sandstone overlying the granite begins. The route traverses to the right over virgin terrain for some 100 metres.

**PROXIMITY TO PUBLIC AREAS:**

This launch site is located well away from the general public presence, at a location where only passing hikers climbing Little Lions Head might encounter the activities. As such, the launching attracts minimal interest, with any spectators usually taking up viewing positions on the path itself.

**EROSION POTENTIAL:**

The fynbos appears to be hard wearing and there is no evidence as yet of any erosion problem. This is probably also primarily due to the low volume of pedestrian traffic.

**POTENTIAL FOR DAMAGE TO FYNBOS PLANTS:**

The fynbos appears to be hard wearing and there is no evidence as yet of any damage. This is probably also primarily due to the low volume of pedestrian traffic.

**RECOMMENDED PREPARATION OF LAUNCH AREA:**

- It is recommended that the site be left exactly as it is at the present time and that it is monitored on an ongoing basis with respect to erosion and damage to vegetation.

**SITE NO. 22:      SANDY BAY**

LOCATION: The slope of Karbonkelberg above the beach.

INTENSITY OF USEAGE:

It is estimated that currently (March 2004), the site might carry in the order of 20 launches per annum; (less than 1 per week); very low usage. Landing is on Sandy Bay beach from where you need to carry your glider out.

**This site is to be accessed by permit only.** Permits can be obtained from the relevant Assistant Section Ranger at the Mt Pleasant office on (021) 689 4441, during office hours (Monday to Thursday: 07:15 – 16:45; Fridays: 07:15 – 15:30).

DESCRIPTION OF LAUNCH AREA:

The launch area comprises sloping dunes and scrub re-growth after alien clearance. The utilised launch area extends over approximately 30 X 30 metres.

PATH TO LAUNCH AREA:

The path to the launch area is the public access route from Sandy Bay neck.

PROXIMITY TO PUBLIC AREAS:

This launch site is located about 700m from the nearest houses. The path is used by hikers and dog walkers who may stop to watch activities. The site is very infrequently flown.

EROSION POTENTIAL:

The potential for any serious erosion is low primarily due to the extremely low useage of the site. This is due to having to carry the glider from Sandy Bay beach after landing and a considerable carry to take off.

POTENTIAL FOR DAMAGE TO FYNBOS PLANTS:

Most vegetation in the area is alien. This has now been cleared in many places and dune vegetation is on the way back. The launch is from the jeep track and rigging is also on the jeep track.

RECOMMENDED PREPARATION OF LAUNCH AREA:

- It is recommended that nothing be done in the way of site preparation at this stage and that the general condition be monitored on a yearly basis.

**SITE NO. 23:      KOMMETJIE**

**(ROAD RESERVE – NOT SANPARKS LAND)**

**LOCATION: S 34° 09′. 361: E 18° 19′. 896**

**INTENSITY OF USEAGE:**

It is estimated that currently (March 2004), the site might carry in the order of 50 launches per annum; (1 per week; if that); very low usage.

**DESCRIPTION OF LAUNCH AREA:**

The launch area is the side of the road above Soetwater camping/braai area and comprises cleared alien bush, road base material and some low coastal fynbos further down the slope.

The utilised launch area extends over approximately 30 X 10 metres.

**PATH TO LAUNCH AREA:**

There is no path to launch area as the launch is from the side of the road between Kommetjie and Scarborough.

**PROXIMITY TO PUBLIC AREAS:**

The occasional car driving past will stop to watch a launch.

**EROSION POTENTIAL:**

Minimal.

**POTENTIAL FOR DAMAGE TO FYNBOS PLANTS:**

There is no potential for damage to fynbos in the immediate launch area.

**RECOMMENDED PREPARATION OF LAUNCH AREA:**

- It is recommended that nothing be done in the way of site preparation at this stage and that the general condition be monitored on a yearly basis.

**SITE NO. 24:      **MISTY CLIFFS****

LOCATION: The slope of the mountain to the North side of the Misty Cliffs settlement.

**This site is to be accessed by permit only.** Permits can be obtained from the relevant Assistant Section Ranger (Red Hill) at the Klaasjagerberg office on (021) 780 9100, during office hours (Monday to Thursday: 07:15 – 16:45; Fridays: 07:15 – 15:30).

INTENSITY OF USEAGE:

It is estimated that currently (March 2004), the site might carry in the order of 50 launches per annum; (1 per week; if that); very low usage.

DESCRIPTION OF LAUNCH AREA:

The utilised launch area extends over approximately 10 X 10 metres. A Natural area of low fynbos.

PATH TO LAUNCH AREA:

Access via Hoerikwaggo trail.

PROXIMITY TO PUBLIC AREAS:

The occasional car driving past will stop to watch a launch.

EROSION POTENTIAL:

Minimal.

POTENTIAL FOR DAMAGE TO FYNBOS PLANTS:

There is little potential for damage to fynbos in the immediate launch area.

RECOMMENDED PREPARATION OF LAUNCH AREA:

- It is recommended that nothing be done in the way of site preparation at this stage and that the general condition be monitored on a yearly basis.