

# PITSTONE QUARRY, PITSTONE

## TYPE 4 VISUALISATIONS - METHODOLOGY AND SURVEY DATA

JULY 2024 | PWN\_016\_02



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## 1.0 INTRODUCTION

1.1 The visualisations for the proposed scheme have been produced in accordance with the Landscape Institute Technical Guidance Note 06/19 (17 September 2019).

1.2 There are 4 Visualisation Types within the LI guidance

**Type 1** - Annotated Viewpoint Photograph - To represent context and outline or extent of development and of key features

**Type 2** - 3D Wireline / Model (non-photographic) - To represent 3D form of development / context

**Type 3** - Photomontage / Photowire - To represent appearance, context, form and extent of development

**Type 4** - Photomontage / Photowire Survey / Scale Verifiable - To represent scale, appearance, context, form, and extent of development

The visualisations produced for the scheme accord to Type 4 Visuals.

1.3 The Landscape Institute defines Type 4 visuals as:

*'photomontages or photowires, produced using quantifiable data, with procedural transparency and appropriate levels of accuracy. This involves using a defined camera / lens combination and establishing the camera location with sufficient locational accuracy to enable accurate scaling and location of the 3D model within the view. In addition, the print presentation size can be determined to provide binocular image scaling when appropriate.'*

## 2.0 VIEWPOINT LOCATION

2.1 A total of 5 viewpoints were identified as requiring Type 4 visuals, as shown in Figure 1.



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**Figure 1: Viewpoint Location Plan**

## 3.0 METHODOLOGY

### Site Visit and Viewpoint Locations

Snapshot Visuals carried out the site photography and survey on the 31st of May 2024 and the 2nd of July 2024.

### Photography

For each agreed viewpoint location, high resolution photography was taken with a full frame digital SLR camera. The camera is set up on a calibrated tripod at a height of 1.5m to replicate a typical eye level. The camera was levelled horizontally and vertically using a tripod mounted levelling base and two camera mounted spirit levels. The location of the camera was GPS/RTK recorded and photographed.

### Lens Selection

In order to capture the full vertical extent of the proposed development and an appropriate amount of contextual built form, a 50mm lens in landscape format was used for the photography (39.6° horizontal field of view and 27° vertical field of view).

### Photography Equipment

- Canon 6D mkII digital SLR camera (35mm)
- Canon EF 50mm f/1.4 USM Lens
- Canon TS-E 24mm f.3.5 Lens (for optional 24mm shots)
- Tripod indexed pano head
- Levelling base with spirit level

### Field Survey Methodology & Survey Data Post Processing

A RTK Rover with LIDAR and Photogrammetry capabilities was used to scan relevant areas or points within each view. The RTK Rover uses a combination of LIDAR points and Photogrammetry to build a 3D point cloud of the scanned area, which is then processed on PIX4D Cloud. This 3D point cloud is accurate to +/- 20mm. The point cloud is exported as a LAS dataset and then imported into 3ds Max for alignment. The RTK Rover is also used to pinpoint the location and height of the camera lens.

### Survey Equipment

- ViDoc RTK Rover & Iphone 13 Pro with HxGN SmartNet Real-Time Kinematic (RTK) Corrections to provide a tolerance of +/- 20mm.

### Photography Post Processing

The relevant images were stitched using PTGui to create a 90° cylindrical panorama. This field of view was selected due to the site being a wide linear development. The standard 53.5° field of view would not provide enough context. The stitched panoramas were then edited in Adobe Photoshop to adjust the levels and exposure where necessary.

### The Development Proposal

Snapshot Visuals were provided with PDF and DWG files of the proposed layout and elevations of equipment by the project architect.

Once modelled in 3D using 3ds Max, the proposals were aligned to the OSGB36 co-ordinate system to correlate with the 3D survey data.

### Photographic Alignment within the 3d Environment

A virtual camera was created within 3ds Max using the surveyed camera location, recorded target point and field of view (FOV) based on the camera and lens combination selected for the shot .

The baseline photograph was attached as a background to this view, to assist the Visualiser in aligning the point cloud to each corresponding background point, based on the Camera Matching Technique.

Where access is limited, or no survey points are limited, opensource LIDAR is used for alignment.

At this stage a 2nd member of the visualisation team cross-checked the camera alignment to verify the view was correctly set.

Using this virtual camera, a render was created of the aligned model at a resolution to match the baseline photograph. This was overlaid onto the baseline photograph to assess the accuracy of the alignment. When using a wide-angle lens, observations outside the circle of distortion are given less weighting.

### Final Rendering and Post-Production

The photomontages were produced in line with Landscape Institute TGN 06/19: Visual Representation of Development Proposals. They were produced as Type 4 visuals.

The final renders were exported at the same resolution as the baseline photography. Multi pass renders are exported to give the visualiser more control in enhancements of the final image. These multi passes may included but not limited to Reflections, Refractions, Shadows, Lighting, Ambient Occlusion and Global Illumination.

The multi pass renders are layered within Adobe Photoshop and blended together to produce the correct level of detail and photo-realistic feel. Finally, masking is applied to the image. Endless aesthetic effects can be applied to the rendered image to enhance the realism of the final image and/or make adjustments as a result of proposed material changes. However, the visualiser always attempts to be faithful to the proposed design within the environment.

The final image is verified by a second visualiser to check the appearance, masking and form of the development.

The final photomontages are then saved in an appropriate format for inclusion within the InDesign document. The renders were set out in accordance with the LI TGN 06/19 with the relevant data on each sheet.

### Software Used

- AutoCAD
- 3ds Max 2024
- V-Ray 6 for 3ds Max
- Adobe Photoshop
- Adobe InDesign
- PTGui 12.16
- PIX4D Cloud
- PIX4D Catch

## 4.0 DATA SOURCES

### Supplied Data

Asset	File Type	Supplier	Reference	Date Supplied	Comments
Site layout	dwg	Portus & Whitton	12732-LUC-XX-DR-L-106_Phase 1 Illustrative Masterplan	07/06/2024	Modelled in 3ds Max
Site layout	dwg	Portus & Whitton	12732-LUC-XX-DR-L-107_Phase 2 Illustrative Masterplan	07/06/2024	Modelled in 3ds Max
Topo survey	dwg	Portus & Whitton	Topo Survey	07/06/2024	Imported into 3ds Max
Landscape plan	dwg	Portus & Whitton	12732_LUC_Pitstone_Landscape Principles	07/06/2024	Imported into 3ds Max

### Generated Data by Snapshot Visuals

Asset	File Type	Reference	Date	Comments
Point Cloud	las	Point_Cloud_VP01.las, Point_Cloud_VP02.las, Point_Cloud_VP06.las, Point_Cloud_VP13.las	31/05/2024	Imported into 3ds Max
Viewpoint Locations	csv	PWN_016_vps-PIX4Dmatic.csv	31/05/2024	Imported into 3ds Max

## 5.0 TYPE 4 VISUALS VERIFICATION DATA

### Verification Data - LIDAR and Photogrammetry scan taken on Site



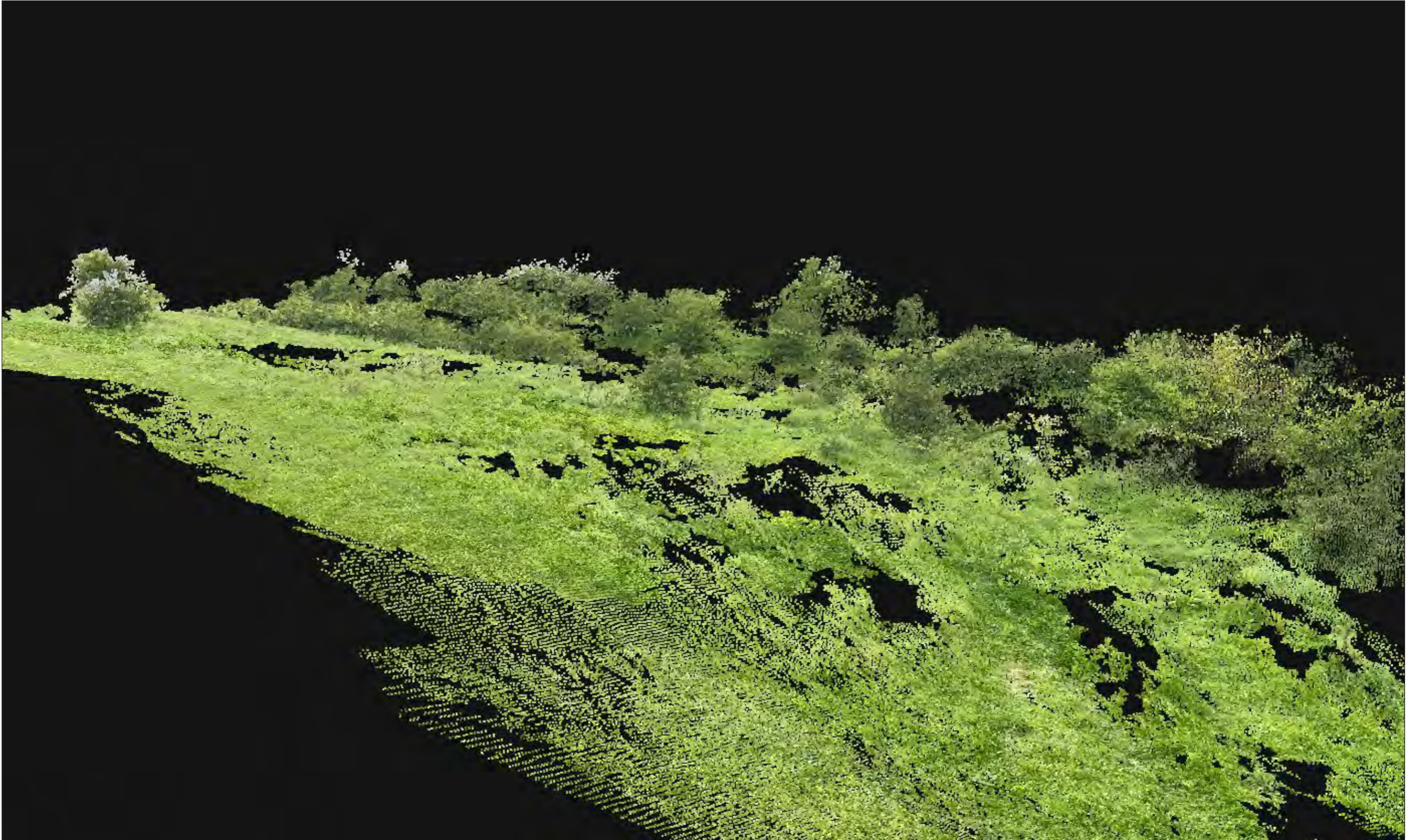
Survey Reference Points - VP02

**Verification Data - LIDAR and Photogrammetry scan taken on Site**



**Survey Reference Points - infrastructure around site**

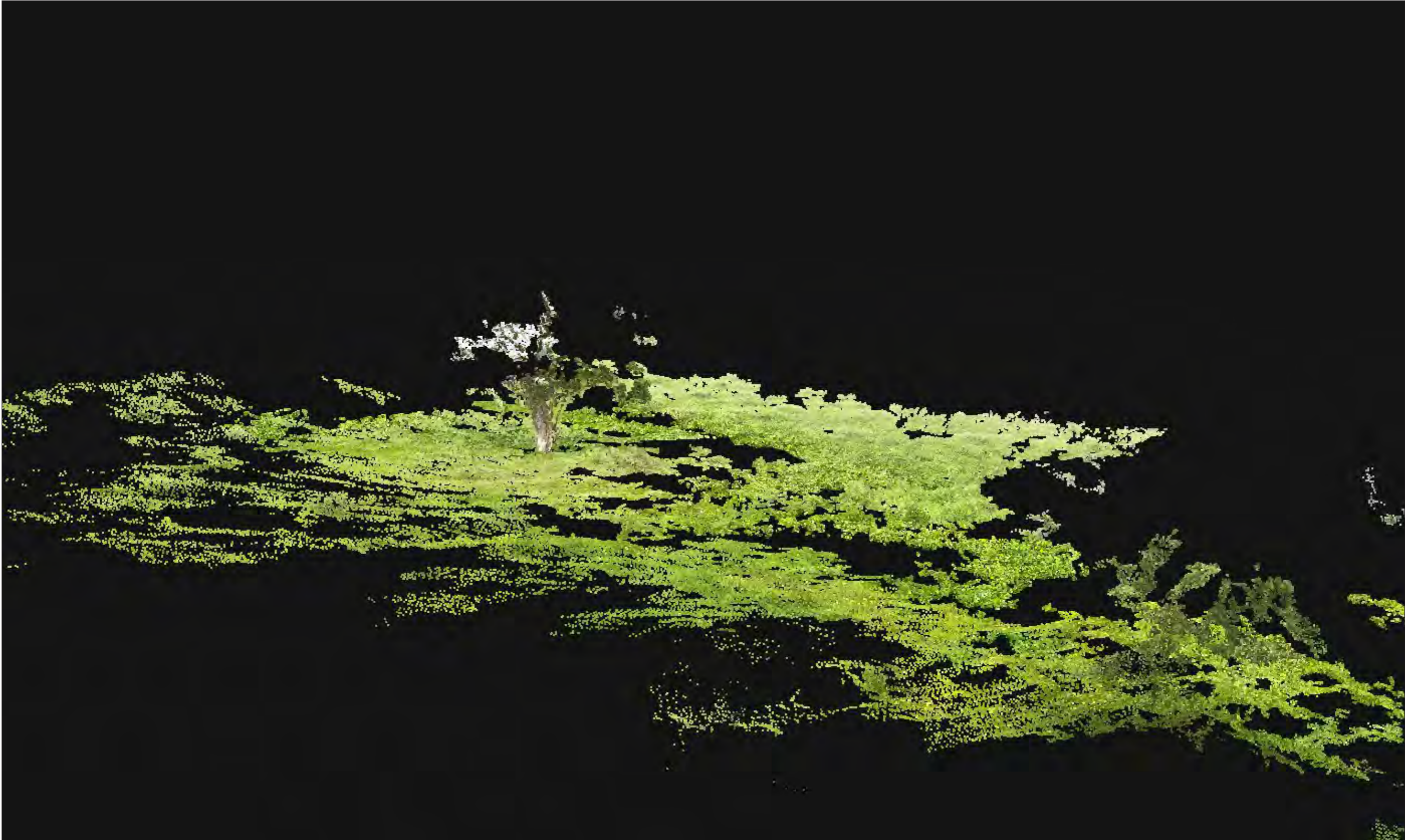
**Verification Data - LIDAR and Photogrammetry scan taken on Site**



**Survey Reference Points - infrastructure around site**

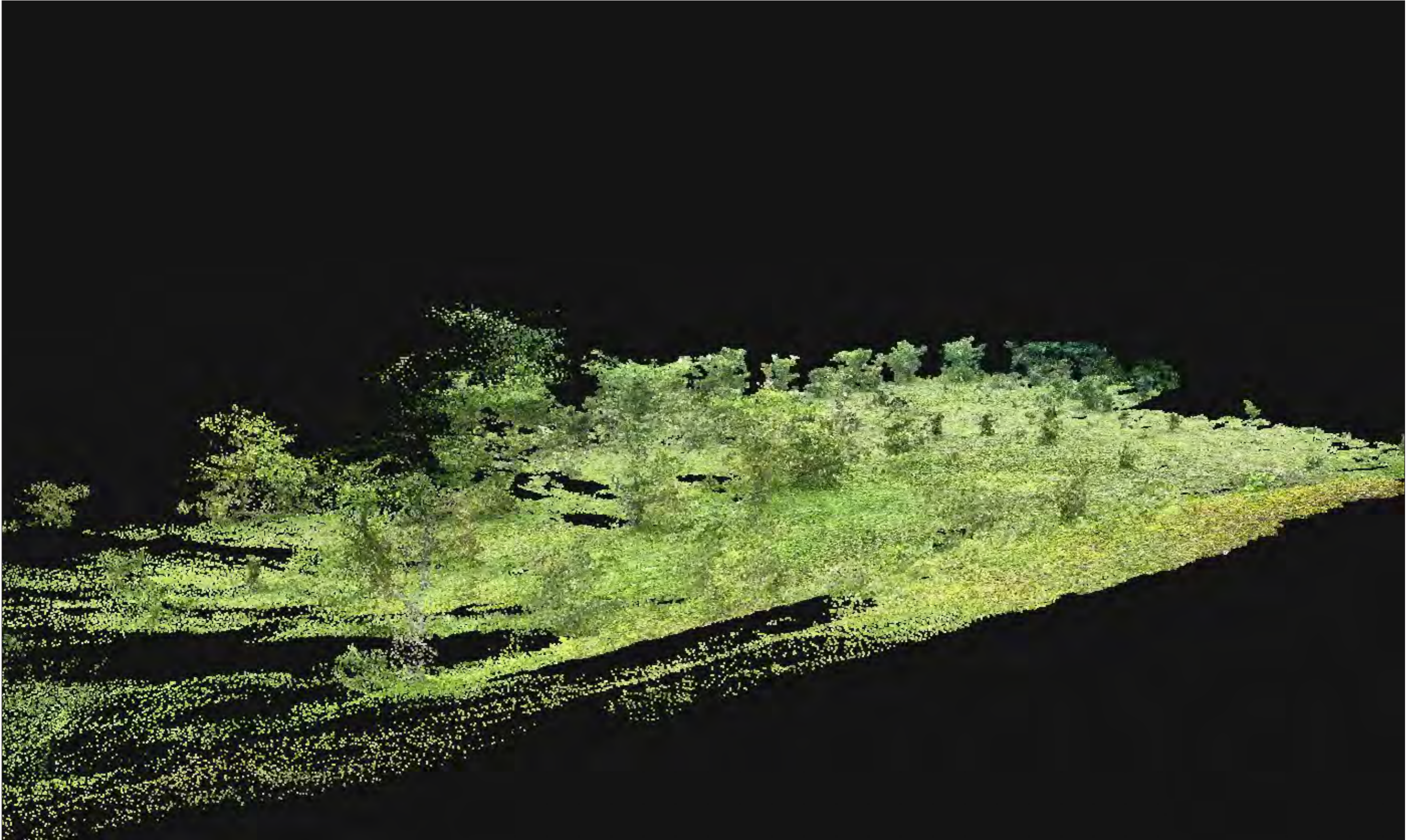


**Verification Data - LIDAR and Photogrammetry scan taken on Site**



**Survey Reference Points - infrastructure around site**

**Verification Data - LIDAR and Photogrammetry scan taken on Site**



**Survey Reference Points - infrastructure around site**

**Verification Data - LIDAR and Photogrammetry scan taken on Site**



**Survey Reference Points - infrastructure around site**

**Verification Data - LIDAR and Photogrammetry scan taken on Site**



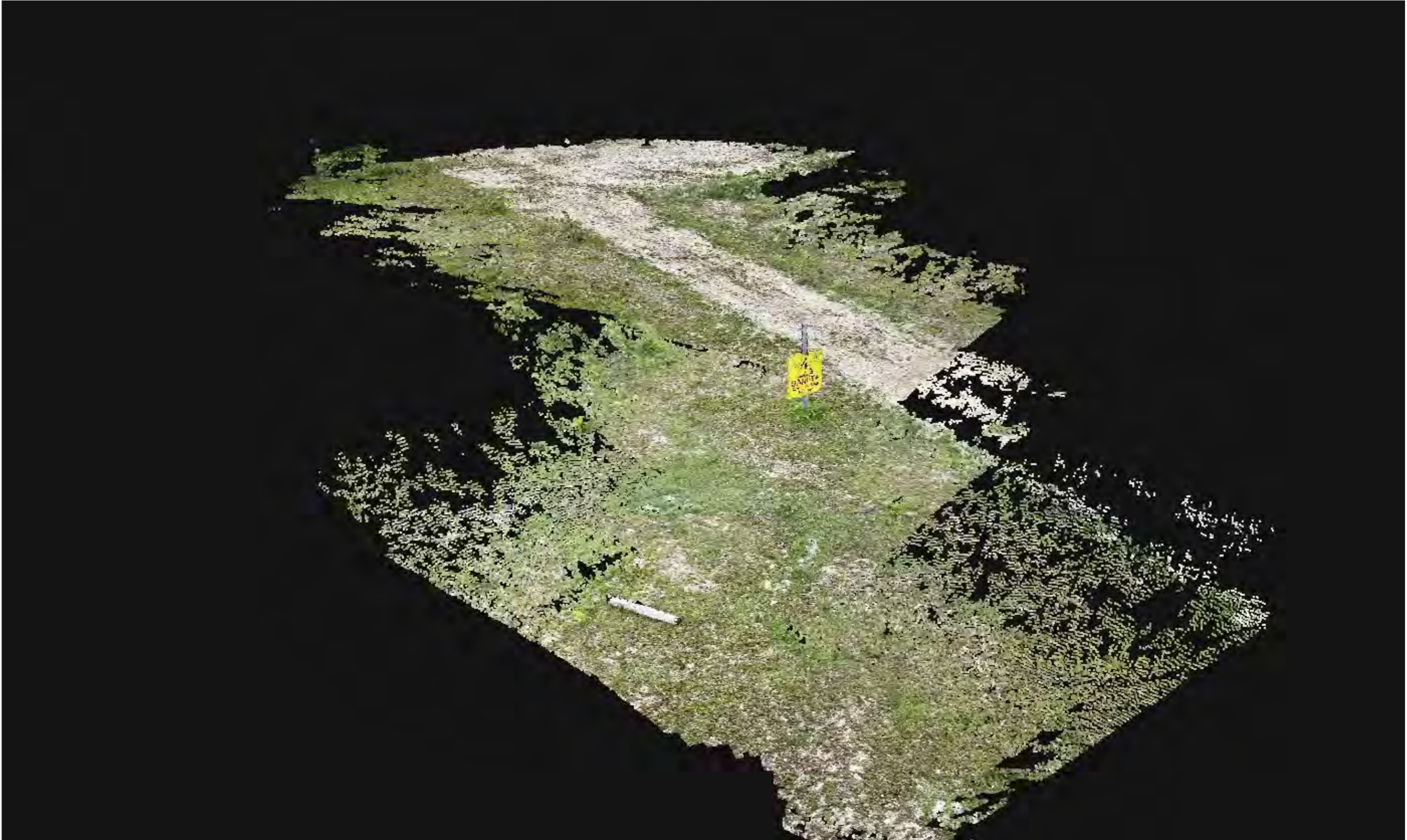
**Survey Reference Points - infrastructure around site**

**Verification Data - LIDAR and Photogrammetry scan taken on Site**



**Survey Reference Points - infrastructure around site**

Verification Data - LIDAR and Photogrammetry scan taken on Site



Survey Reference Points - infrastructure around site

**Verification Data - LIDAR and Photogrammetry scan taken on Site**



**Survey Reference Points - infrastructure around site**

**Verification Data - LIDAR and Photogrammetry scan taken on Site**



**Survey Reference Points - infrastructure around site**



Verification Data - LIDAR and Photogrammetry scan taken on Site



Survey Reference Points - infrastructure around site

Verification Data - LIDAR and Photogrammetry scan taken on Site



Survey Reference Points - infrastructure around site

Verification Data - LIDAR and Photogrammetry scan taken on Site



Survey Reference Points - infrastructure around site

**Viewpoint 1A - Verification Data Alignment**



Viewpoint Location

**Viewpoint 1B - Verification Data Alignment**



Tripod Location

**Survey Reference Points - LIDAR & Photogrammetry Point Cloud Alignment on existing photography**

**Viewpoint 2A - Verification Data Alignment**



Viewpoint Location

**Viewpoint 2B - Verification Data Alignment**



Tripod Location

**Survey Reference Points - LIDAR & Photogrammetry Point Cloud Alignment on existing photography**

**Viewpoint 6A - Verification Data Alignment**



Viewpoint Location

**Viewpoint 6B - Verification Data Alignment**



Tripod Location

**Survey Reference Points - LIDAR & Photogrammetry Point Cloud Alignment on existing photography**

**Viewpoint 13 - Verification Data Alignment**



**Survey Reference Points - LIDAR Point Cloud Alignment on existing photography**



**Viewpoint Location**



**Tripod Location**

**Viewpoint 17A - Verification Data Alignment**



Viewpoint Location

**Viewpoint 17B - Verification Data Alignment**



Tripod Location

**Survey Reference Points - LIDAR Point Cloud Alignment on existing photography**





Snapshot Visualisations Ltd

114 St Marys Road,  
Market Harborough,  
Leicestershire,  
England,  
LE16 7DX



TRIPOD LOCATION

EXISTING VIEW

To be viewed at a comfortable arm's length

<b>Camera make &amp; model</b>	- Canon EOS 6D MkII	<b>Viewpoint height (AOD)</b>	- 136m	<b>Visualisation Type</b>	- Type 4 (LI TGN 06/19)
<b>Lens make &amp; focal length</b>	- Canon EF 50mm, f/1.4 USM	<b>Distance from site</b>	- 0m	<b>Horizontal Field of View</b>	- 90°
<b>Date &amp; time of photograph</b>	- 31/05/2024 @ 10:20	<b>Projection</b>	- Cylindrical	<b>Height of camera AGL</b>	- 1.5m
<b>OS grid reference</b>	- 494697, 214837	<b>Enlargement factor</b>	- 96%	<b>Page size / Image size (mm)</b>	- 841 x 297 / 820 x 235

**PITSTONE QUARRY, PITSTONE**

**VIEWPOINT 1A - EXISTING**

VIEW LOOKING TOWARDS THE EASTERN BOUNDARY OF THE SITE , FROM WITHIN THE APPLICATION SITE



PHOTOMONTAGE - YEAR 3

To be viewed at a comfortable arm's length

<b>Camera make &amp; model</b>	- Canon EOS 6D MkII	<b>Viewpoint height (AOD)</b>	- 136m	<b>Visualisation Type</b>	- Type 4 (LI TGN 06/19)
<b>Lens make &amp; focal length</b>	- Canon EF 50mm, f/1.4 USM	<b>Distance from site</b>	- 0m	<b>Horizontal Field of View</b>	- 90°
<b>Date &amp; time of photograph</b>	- 31/05/2024 @ 10:20	<b>Projection</b>	- Cylindrical	<b>Height of camera AGL</b>	- 1.5m
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**PITSTONE QUARRY, PITSTONE**  
VIEWPOINT 1A - PHOTOMONTAGE - YEAR 3

VIEW LOOKING TOWARDS THE EASTERN BOUNDARY OF THE SITE , FROM WITHIN THE APPLICATION SITE



PHOTOMONTAGE - YEAR 18



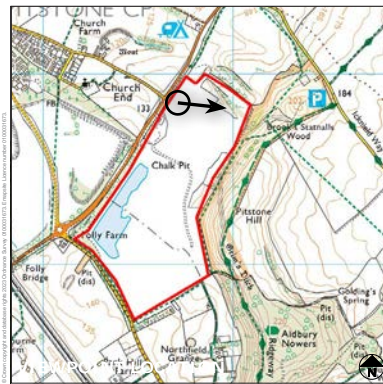
To be viewed at a comfortable arm's length

<b>Camera make &amp; model</b>	- Canon EOS 6D MkII	<b>Viewpoint height (AOD)</b>	- 136m	<b>Visualisation Type</b>	- Type 4 (LI TGN 06/19)
<b>Lens make &amp; focal length</b>	- Canon EF 50mm, f/1.4 USM	<b>Distance from site</b>	- 0m	<b>Horizontal Field of View</b>	- 90°
<b>Date &amp; time of photograph</b>	- 31/05/2024 @ 10:20	<b>Projection</b>	- Cylindrical	<b>Height of camera AGL</b>	- 1.5m
<b>OS grid reference</b>	- 494697, 214837	<b>Enlargement factor</b>	- 96%	<b>Page size / Image size (mm)</b>	- 841 x 297 / 820 x 235

**PITSTONE QUARRY, PITSTONE**

**VIEWPOINT 1A - PHOTOMONTAGE - YEAR 18**

VIEW LOOKING TOWARDS THE EASTERN BOUNDARY OF THE SITE , FROM WITHIN THE APPLICATION SITE



PHOTOMONTAGE - YEAR 33



To be viewed at a comfortable arm's length

<b>Camera make &amp; model</b>	- Canon EOS 6D MkII	<b>Viewpoint height (AOD)</b>	- 1.36m	<b>Visualisation Type</b>	- Type 4 (LI TGN 06/19)
<b>Lens make &amp; focal length</b>	- Canon EF 50mm, f/1.4 USM	<b>Distance from site</b>	- 0m	<b>Horizontal Field of View</b>	- 90°
<b>Date &amp; time of photograph</b>	- 31/05/2024 @ 10:20	<b>Projection</b>	- Cylindrical	<b>Height of camera AGL</b>	- 1.5m
<b>OS grid reference</b>	- 494697, 214837	<b>Enlargement factor</b>	- 96%	<b>Page size / Image size (mm)</b>	- 841 x 297 / 820 x 235

**PITSTONE QUARRY, PITSTONE**

**VIEWPOINT 1A - PHOTOMONTAGE - YEAR 33**

VIEW LOOKING TOWARDS THE EASTERN BOUNDARY OF THE SITE , FROM WITHIN THE APPLICATION SITE



TRIPOD LOCATION

EXISTING VIEW

To be viewed at a comfortable arm's length

<b>Camera make &amp; model</b>	- Canon EOS 6D MkII	<b>Viewpoint height (AOD)</b>	- 136m	<b>Visualisation Type</b>	- Type 4 (LI TGN 06/19)
<b>Lens make &amp; focal length</b>	- Canon EF 50mm, f/1.4 USM	<b>Distance from site</b>	- 0m	<b>Horizontal Field of View</b>	- 90°
<b>Date &amp; time of photograph</b>	- 31/05/2024 @ 10:20	<b>Projection</b>	- Cylindrical	<b>Height of camera AGL</b>	- 1.5m
<b>OS grid reference</b>	- 494697, 214837	<b>Enlargement factor</b>	- 96%	<b>Page size / Image size (mm)</b>	- 841 x 297 / 820 x 235

**PITSTONE QUARRY, PITSTONE**

**VIEWPOINT 1B - EXISTING**

VIEW LOOKING TOWARDS THE EASTERN BOUNDARY OF THE SITE , FROM WITHIN THE APPLICATION SITE



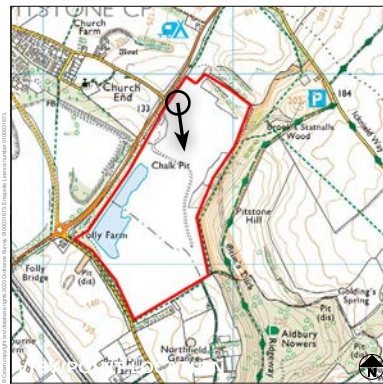
PHOTOMONTAGE - YEAR 3

To be viewed at a comfortable arm's length

<b>Camera make &amp; model</b>	- Canon EOS 6D MkII	<b>Viewpoint height (AOD)</b>	- 136m	<b>Visualisation Type</b>	- Type 4 (LI TGN 06/19)
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<b>OS grid reference</b>	- 494697, 214837	<b>Enlargement factor</b>	- 96%	<b>Page size / Image size (mm)</b>	- 841 x 297 / 820 x 235

**PITSTONE QUARRY, PITSTONE**  
VIEWPOINT 1B - PHOTOMONTAGE - YEAR 3

VIEW LOOKING TOWARDS THE EASTERN BOUNDARY OF THE SITE , FROM WITHIN THE APPLICATION SITE



PHOTOMONTAGE - YEAR 18

To be viewed at a comfortable arm's length

<b>Camera make &amp; model</b>	- Canon EOS 6D MkII	<b>Viewpoint height (AOD)</b>	- 1.36m	<b>Visualisation Type</b>	- Type 4 (LI TGN 06/19)
<b>Lens make &amp; focal length</b>	- Canon EF 50mm, f/1.4 USM	<b>Distance from site</b>	- 0m	<b>Horizontal Field of View</b>	- 90°
<b>Date &amp; time of photograph</b>	- 31/05/2024 @ 10:20	<b>Projection</b>	- Cylindrical	<b>Height of camera AGL</b>	- 1.5m
<b>OS grid reference</b>	- 494697, 214837	<b>Enlargement factor</b>	- 96%	<b>Page size / Image size (mm)</b>	- 841 x 297 / 820 x 235

**PITSTONE QUARRY, PITSTONE**

**VIEWPOINT 1B - PHOTOMONTAGE - YEAR 18**

VIEW LOOKING TOWARDS THE EASTERN BOUNDARY OF THE SITE , FROM WITHIN THE APPLICATION SITE





PHOTOMONTAGE - YEAR 33



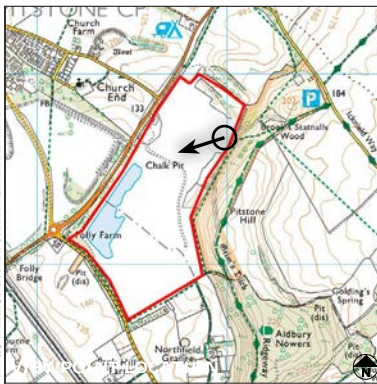
To be viewed at a comfortable arm's length

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<b>OS grid reference</b>	- 494697, 214837	<b>Enlargement factor</b>	- 96%	<b>Page size / Image size (mm)</b>	- 841 x 297 / 820 x 235

**PITSTONE QUARRY, PITSTONE**

**VIEWPOINT 1B - PHOTOMONTAGE - YEAR 33**

VIEW LOOKING TOWARDS THE EASTERN BOUNDARY OF THE SITE , FROM WITHIN THE APPLICATION SITE



TRIPOD LOCATION

EXISTING VIEW

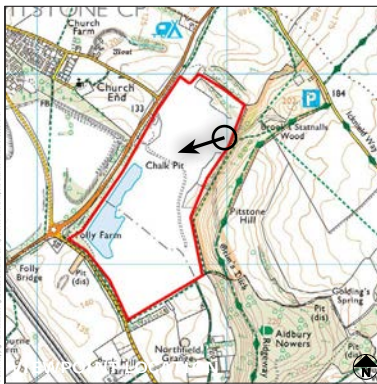
To be viewed at a comfortable arm's length

<b>Camera make &amp; model</b>	- Canon EOS 6D MkII	<b>Viewpoint height (AOD)</b>	- 1.62m	<b>Visualisation Type</b>	- Type 4 (LI TGN 06/19)
<b>Lens make &amp; focal length</b>	- Canon EF 50mm, f/1.4 USM	<b>Distance from site</b>	- 0m	<b>Horizontal Field of View</b>	- 90°
<b>Date &amp; time of photograph</b>	- 31/05/2024 @ 10:50	<b>Projection</b>	- Cylindrical	<b>Height of camera AGL</b>	- 1.5m
<b>OS grid reference</b>	- 494975, 214610	<b>Enlargement factor</b>	- 96%	<b>Page size / Image size (mm)</b>	- 841 x 297 / 820 x 235

**PITSTONE QUARRY, PITSTONE**

**VIEWPOINT 2A - EXISTING**

VIEW LOOKING TOWARDS THE WESTERN BOUNDARY OF THE SITE , ALONG THE ORIGINAL FOOTPATH 7



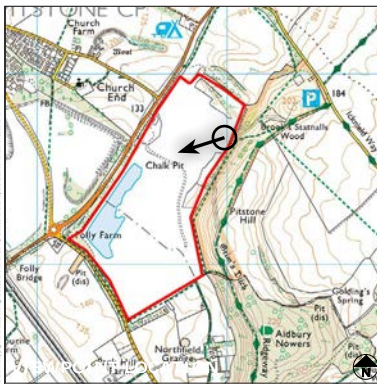
PHOTOMONTAGE - YEAR 3

To be viewed at a comfortable arm's length

<b>Camera make &amp; model</b>	- Canon EOS 6D MkII	<b>Viewpoint height (AOD)</b>	- 162m	<b>Visualisation Type</b>	- Type 4 (LI TGN 06/19)
<b>Lens make &amp; focal length</b>	- Canon EF 50mm, f/1.4 USM	<b>Distance from site</b>	- 0m	<b>Horizontal Field of View</b>	- 90°
<b>Date &amp; time of photograph</b>	- 31/05/2024 @ 10:50	<b>Projection</b>	- Cylindrical	<b>Height of camera AGL</b>	- 1.5m
<b>OS grid reference</b>	- 494975, 214610	<b>Enlargement factor</b>	- 96%	<b>Page size / Image size (mm)</b>	- 841 x 297 / 820 x 235

**PITSTONE QUARRY, PITSTONE**  
**VIEWPOINT 2A - PHOTOMONTAGE - YEAR 3**

VIEW LOOKING TOWARDS THE WESTERN BOUNDARY OF THE SITE , ALONG THE ORIGINAL FOOTPATH 7



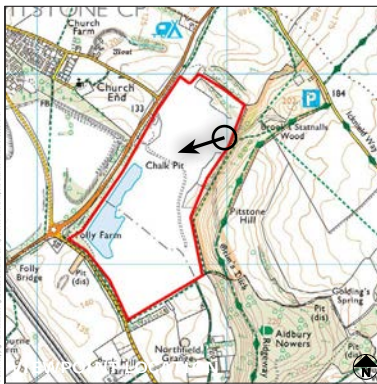
PHOTOMONTAGE - YEAR 18

To be viewed at a comfortable arm's length

<b>Camera make &amp; model</b>	- Canon EOS 6D MkII	<b>Viewpoint height (AOD)</b>	- 1.62m	<b>Visualisation Type</b>	- Type 4 (LI TGN 06/19)
<b>Lens make &amp; focal length</b>	- Canon EF 50mm, f/1.4 USM	<b>Distance from site</b>	- 0m	<b>Horizontal Field of View</b>	- 90°
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<b>OS grid reference</b>	- 494975, 214610	<b>Enlargement factor</b>	- 96%	<b>Page size / Image size (mm)</b>	- 841 x 297 / 820 x 235

**PITSTONE QUARRY, PITSTONE**  
**VIEWPOINT 2A - PHOTOMONTAGE - YEAR 18**

VIEW LOOKING TOWARDS THE WESTERN BOUNDARY OF THE SITE , ALONG THE ORIGINAL FOOTPATH 7



PHOTOMONTAGE - YEAR 33

To be viewed at a comfortable arm's length

<b>Camera make &amp; model</b>	- Canon EOS 6D MkII	<b>Viewpoint height (AOD)</b>	- 1.62m	<b>Visualisation Type</b>	- Type 4 (LI TGN 06/19)
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<b>OS grid reference</b>	- 494975, 214610	<b>Enlargement factor</b>	- 96%	<b>Page size / Image size (mm)</b>	- 841 x 297 / 820 x 235

## PITSTONE QUARRY, PITSTONE VIEWPOINT 2A - PHOTOMONTAGE - YEAR 33

VIEW LOOKING TOWARDS THE WESTERN BOUNDARY OF THE SITE , ALONG THE ORIGINAL FOOTPATH 7



TRIPOD LOCATION

EXISTING VIEW

To be viewed at a comfortable arm's length

<b>Camera make &amp; model</b>	- Canon EOS 6D MkII	<b>Viewpoint height (AOD)</b>	- 162m	<b>Visualisation Type</b>	- Type 4 (LI TGN 06/19)
<b>Lens make &amp; focal length</b>	- Canon EF 50mm, f/1.4 USM	<b>Distance from site</b>	- 0m	<b>Horizontal Field of View</b>	- 90°
<b>Date &amp; time of photograph</b>	- 31/05/2024 @ 10:50	<b>Projection</b>	- Cylindrical	<b>Height of camera AGL</b>	- 1.5m
<b>OS grid reference</b>	- 494975, 214610	<b>Enlargement factor</b>	- 96%	<b>Page size / Image size (mm)</b>	- 841 x 297 / 820 x 235

**PITSTONE QUARRY, PITSTONE**

**VIEWPOINT 2B - EXISTING**

VIEW LOOKING TOWARDS THE WESTERN BOUNDARY OF THE SITE , ALONG THE ORIGINAL FOOTPATH 7



TRIPOD LOCATION

PHOTOMONTAGE - YEAR 3

To be viewed at a comfortable arm's length

<b>Camera make &amp; model</b>	- Canon EOS 6D MkII	<b>Viewpoint height (AOD)</b>	- 162m	<b>Visualisation Type</b>	- Type 4 (LI TGN 06/19)
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**PITSTONE QUARRY, PITSTONE**  
**VIEWPOINT 2B - PHOTOMONTAGE - YEAR 3**

VIEW LOOKING TOWARDS THE WESTERN BOUNDARY OF THE SITE , ALONG THE ORIGINAL FOOTPATH 7





PHOTOMONTAGE - YEAR 18

To be viewed at a comfortable arm's length



<b>Camera make &amp; model</b>	- Canon EOS 6D MkII	<b>Viewpoint height (AOD)</b>	- 162m	<b>Visualisation Type</b>	- Type 4 (LI TGN 06/19)
<b>Lens make &amp; focal length</b>	- Canon EF 50mm, f/1.4 USM	<b>Distance from site</b>	- 0m	<b>Horizontal Field of View</b>	- 90°
<b>Date &amp; time of photograph</b>	- 31/05/2024 @ 10:50	<b>Projection</b>	- Cylindrical	<b>Height of camera AGL</b>	- 1.5m
<b>OS grid reference</b>	- 494975, 214610	<b>Enlargement factor</b>	- 96%	<b>Page size / Image size (mm)</b>	- 841 x 297 / 820 x 235

**PITSTONE QUARRY, PITSTONE**  
**VIEWPOINT 2B - PHOTOMONTAGE - YEAR 18**

VIEW LOOKING TOWARDS THE WESTERN BOUNDARY OF THE SITE , ALONG THE ORIGINAL FOOTPATH 7





TRIPOD LOCATION

PHOTOMONTAGE - YEAR 33

To be viewed at a comfortable arm's length

<b>Camera make &amp; model</b>	- Canon EOS 6D MkII	<b>Viewpoint height (AOD)</b>	- 162m	<b>Visualisation Type</b>	- Type 4 (LI TGN 06/19)
<b>Lens make &amp; focal length</b>	- Canon EF 50mm, f/1.4 USM	<b>Distance from site</b>	- 0m	<b>Horizontal Field of View</b>	- 90°
<b>Date &amp; time of photograph</b>	- 31/05/2024 @ 10:50	<b>Projection</b>	- Cylindrical	<b>Height of camera AGL</b>	- 1.5m
<b>OS grid reference</b>	- 494975, 214610	<b>Enlargement factor</b>	- 96%	<b>Page size / Image size (mm)</b>	- 841 x 297 / 820 x 235

**PITSTONE QUARRY, PITSTONE**

**VIEWPOINT 2B - PHOTOMONTAGE - YEAR 33**

VIEW LOOKING TOWARDS THE WESTERN BOUNDARY OF THE SITE , ALONG THE ORIGINAL FOOTPATH 7





TRIPOD LOCATION

EXISTING VIEW

To be viewed at a comfortable arm's length

<b>Camera make &amp; model</b>	- Canon EOS 6D MkII	<b>Viewpoint height (AOD)</b>	- 216m	<b>Visualisation Type</b>	- Type 4 (LI TGN 06/19)
<b>Lens make &amp; focal length</b>	- Canon EF 50mm, f/1.4 USM	<b>Distance from site</b>	- 170m	<b>Horizontal Field of View</b>	- 90°
<b>Date &amp; time of photograph</b>	- 31/05/2024 @ 09:29	<b>Projection</b>	- Cylindrical	<b>Height of camera AGL</b>	- 1.5m
<b>OS grid reference</b>	- 494956, 214169	<b>Enlargement factor</b>	- 96%	<b>Page size / Image size (mm)</b>	- 841 x 297 / 820 x 235

**PITSTONE QUARRY, PITSTONE**

**VIEWPOINT 6A - EXISTING**

VIEW FROM THE CUSP OF PITSTONE HILL, WHERE PUBLIC FOOTPATH 13/2 MEETS A PORTION OF GRIM'S DITCH



TRIPOD LOCATION

PHOTOMONTAGE - YEAR 3

To be viewed at a comfortable arm's length

<b>Camera make &amp; model</b>	- Canon EOS 6D MkII	<b>Viewpoint height (AOD)</b>	- 216m	<b>Visualisation Type</b>	- Type 4 (LI TGN 06/19)
<b>Lens make &amp; focal length</b>	- Canon EF 50mm, f/1.4 USM	<b>Distance from site</b>	- 170m	<b>Horizontal Field of View</b>	- 90°
<b>Date &amp; time of photograph</b>	- 31/05/2024 @ 09:29	<b>Projection</b>	- Cylindrical	<b>Height of camera AGL</b>	- 1.5m
<b>OS grid reference</b>	- 494956, 214169	<b>Enlargement factor</b>	- 96%	<b>Page size / Image size (mm)</b>	- 841 x 297 / 820 x 235

## PITSTONE QUARRY, PITSTONE VIEWPOINT 6A - PHOTOMONTAGE - YEAR 3

VIEW FROM THE CUSP OF PITSTONE HILL, WHERE PUBLIC FOOTPATH 13/2 MEETS A PORTION OF GRIM'S DITCH



TRIPOD LOCATION

PHOTOMONTAGE - YEAR 18

To be viewed at a comfortable arm's length

### PITSTONE QUARRY, PITSTONE

### VIEWPOINT 6A - PHOTOMONTAGE - YEAR 18

VIEW FROM THE CUSP OF PITSTONE HILL, WHERE PUBLIC FOOTPATH 13/2 MEETS A PORTION OF GRIM'S DITCH



<b>Camera make &amp; model</b>	- Canon EOS 6D MkII	<b>Viewpoint height (AOD)</b>	- 216m	<b>Visualisation Type</b>	- Type 4 (LI TGN 06/19)
<b>Lens make &amp; focal length</b>	- Canon EF 50mm, f/1.4 USM	<b>Distance from site</b>	- 170m	<b>Horizontal Field of View</b>	- 90°
<b>Date &amp; time of photograph</b>	- 31/05/2024 @ 09:29	<b>Projection</b>	- Cylindrical	<b>Height of camera AGL</b>	- 1.5m
<b>OS grid reference</b>	- 494956, 214169	<b>Enlargement factor</b>	- 96%	<b>Page size / Image size (mm)</b>	- 841 x 297 / 820 x 235



TRIPOD LOCATION

PHOTOMONTAGE - YEAR 33

To be viewed at a comfortable arm's length

**PITSTONE QUARRY, PITSTONE**

**VIEWPOINT 6A - PHOTOMONTAGE - YEAR 33**

VIEW FROM THE CUSP OF PITSTONE HILL, WHERE PUBLIC FOOTPATH 13/2 MEETS A PORTION OF GRIM'S DITCH



<b>Camera make &amp; model</b>	- Canon EOS 6D MkII	<b>Viewpoint height (AOD)</b>	- 216m	<b>Visualisation Type</b>	- Type 4 (LI TGN 06/19)
<b>Lens make &amp; focal length</b>	- Canon EF 50mm, f/1.4 USM	<b>Distance from site</b>	- 170m	<b>Horizontal Field of View</b>	- 90°
<b>Date &amp; time of photograph</b>	- 31/05/2024 @ 09:29	<b>Projection</b>	- Cylindrical	<b>Height of camera AGL</b>	- 1.5m
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TRIPOD LOCATION

EXISTING VIEW

To be viewed at a comfortable arm's length

<b>Camera make &amp; model</b>	- Canon EOS 6D MkII	<b>Viewpoint height (AOD)</b>	- 216m	<b>Visualisation Type</b>	- Type 4 (LI TGN 06/19)
<b>Lens make &amp; focal length</b>	- Canon EF 50mm, f/1.4 USM	<b>Distance from site</b>	- 170m	<b>Horizontal Field of View</b>	- 90°
<b>Date &amp; time of photograph</b>	- 31/05/2024 @ 09:29	<b>Projection</b>	- Cylindrical	<b>Height of camera AGL</b>	- 1.5m
<b>OS grid reference</b>	- 494956, 214169	<b>Enlargement factor</b>	- 96%	<b>Page size / Image size (mm)</b>	- 841 x 297 / 820 x 235

**PITSTONE QUARRY, PITSTONE**

**VIEWPOINT 6B - EXISTING**

VIEW FROM THE CUSP OF PITSTONE HILL, WHERE PUBLIC FOOTPATH 13/2 MEETS A PORTION OF GRIM'S DITCH



TRIPOD LOCATION

PHOTOMONTAGE - YEAR 3

To be viewed at a comfortable arm's length

<b>Camera make &amp; model</b>	- Canon EOS 6D MkII	<b>Viewpoint height (AOD)</b>	- 216m	<b>Visualisation Type</b>	- Type 4 (LI TGN 06/19)
<b>Lens make &amp; focal length</b>	- Canon EF 50mm, f/1.4 USM	<b>Distance from site</b>	- 170m	<b>Horizontal Field of View</b>	- 90°
<b>Date &amp; time of photograph</b>	- 31/05/2024 @ 09:29	<b>Projection</b>	- Cylindrical	<b>Height of camera AGL</b>	- 1.5m
<b>OS grid reference</b>	- 494956, 214169	<b>Enlargement factor</b>	- 96%	<b>Page size / Image size (mm)</b>	- 841 x 297 / 820 x 235

**PITSTONE QUARRY, PITSTONE**  
**VIEWPOINT 6B - PHOTOMONTAGE - YEAR 3**

VIEW FROM THE CUSP OF PITSTONE HILL, WHERE PUBLIC FOOTPATH 13/2 MEETS A PORTION OF GRIM'S DITCH





PHOTOMONTAGE - YEAR 18

To be viewed at a comfortable arm's length

<b>Camera make &amp; model</b>	- Canon EOS 6D MkII	<b>Viewpoint height (AOD)</b>	- 216m	<b>Visualisation Type</b>	- Type 4 (LI TGN 06/19)
<b>Lens make &amp; focal length</b>	- Canon EF 50mm, f/1.4 USM	<b>Distance from site</b>	- 170m	<b>Horizontal Field of View</b>	- 90°
<b>Date &amp; time of photograph</b>	- 31/05/2024 @ 09:29	<b>Projection</b>	- Cylindrical	<b>Height of camera AGL</b>	- 1.5m
<b>OS grid reference</b>	- 494956, 214169	<b>Enlargement factor</b>	- 96%	<b>Page size / Image size (mm)</b>	- 841 x 297 / 820 x 235

## PITSTONE QUARRY, PITSTONE VIEWPOINT 6B - PHOTOMONTAGE - YEAR 18

VIEW FROM THE CUSP OF PITSTONE HILL, WHERE PUBLIC FOOTPATH 13/2 MEETS A PORTION OF GRIM'S DITCH





PHOTOMONTAGE - YEAR 33

To be viewed at a comfortable arm's length

<b>Camera make &amp; model</b>	- Canon EOS 6D MKII	<b>Viewpoint height (AOD)</b>	- 216m	<b>Visualisation Type</b>	- Type 4 (LI TGN 06/19)
<b>Lens make &amp; focal length</b>	- Canon EF 50mm, f/1.4 USM	<b>Distance from site</b>	- 170m	<b>Horizontal Field of View</b>	- 90°
<b>Date &amp; time of photograph</b>	- 31/05/2024 @ 09:29	<b>Projection</b>	- Cylindrical	<b>Height of camera AGL</b>	- 1.5m
<b>OS grid reference</b>	- 494956, 214169	<b>Enlargement factor</b>	- 96%	<b>Page size / Image size (mm)</b>	- 841 x 297 / 820 x 235

**PITSTONE QUARRY, PITSTONE**  
**VIEWPOINT 6B - PHOTOMONTAGE - YEAR 33**

VIEW FROM THE CUSP OF PITSTONE HILL, WHERE PUBLIC FOOTPATH 13/2 MEETS A PORTION OF GRIM'S DITCH





TRIPOD LOCATION

EXISTING VIEW

To be viewed at a comfortable arm's length

<b>Camera make &amp; model</b>	- Canon EOS 6D MkII	<b>Viewpoint height (AOD)</b>	- 203m	<b>Visualisation Type</b>	- Type 4 (LI TGN 06/19)
<b>Lens make &amp; focal length</b>	- Canon EF 50mm, f/1.4 USM	<b>Distance from site</b>	- 250m	<b>Horizontal Field of View</b>	- 90°
<b>Date &amp; time of photograph</b>	- 31/05/2024 @ 09:08	<b>Projection</b>	- Cylindrical	<b>Height of camera AGL</b>	- 1.5m
<b>OS grid reference</b>	- 495347, 214825	<b>Enlargement factor</b>	- 96%	<b>Page size / Image size (mm)</b>	- 841 x 297 / 820 x 235

### PITSTONE QUARRY, PITSTONE

#### VIEWPOINT 13 - EXISTING

VIEW SOUTH-WESTWARDS FROM A LOCALISED HIGH POINT ALONG THE RIDGEWAY (PAUL'S KNOB)



PHOTOMONTAGE - YEAR 3



To be viewed at a comfortable arm's length

<b>Camera make &amp; model</b>	- Canon EOS 6D MkII	<b>Viewpoint height (AOD)</b>	- 203m	<b>Visualisation Type</b>	- Type 4 (LI TGN 06/19)
<b>Lens make &amp; focal length</b>	- Canon EF 50mm, f/1.4 USM	<b>Distance from site</b>	- 250m	<b>Horizontal Field of View</b>	- 90°
<b>Date &amp; time of photograph</b>	- 31/05/2024 @ 09:08	<b>Projection</b>	- Cylindrical	<b>Height of camera AGL</b>	- 1.5m
<b>OS grid reference</b>	- 495347, 214825	<b>Enlargement factor</b>	- 96%	<b>Page size / Image size (mm)</b>	- 841 x 297 / 820 x 235

**PITSTONE QUARRY, PITSTONE**

**VIEWPOINT 13 - PHOTOMONTAGE - YEAR 3**

VIEW SOUTH-WESTWARDS FROM A LOCALISED HIGH POINT ALONG THE RIDGEWAY (PAUL'S KNOB)



TRIPOD LOCATION

PHOTOMONTAGE - YEAR 18

To be viewed at a comfortable arm's length

<b>Camera make &amp; model</b>	- Canon EOS 6D MkII	<b>Viewpoint height (AOD)</b>	- 203m	<b>Visualisation Type</b>	- Type 4 (LI TGN 06/19)
<b>Lens make &amp; focal length</b>	- Canon EF 50mm, f/1.4 USM	<b>Distance from site</b>	- 250m	<b>Horizontal Field of View</b>	- 90°
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<b>OS grid reference</b>	- 495347, 214825	<b>Enlargement factor</b>	- 96%	<b>Page size / Image size (mm)</b>	- 841 x 297 / 820 x 235

### PITSTONE QUARRY, PITSTONE

### VIEWPOINT 13 - PHOTOMONTAGE - YEAR 18

VIEW SOUTH-WESTWARDS FROM A LOCALISED HIGH POINT ALONG THE RIDGEWAY (PAUL'S KNOB)



TRIPOD LOCATION

PHOTOMONTAGE - YEAR 33

To be viewed at a comfortable arm's length

<b>Camera make &amp; model</b>	- Canon EOS 6D MkII	<b>Viewpoint height (AOD)</b>	- 203m	<b>Visualisation Type</b>	- Type 4 (LI TGN 06/19)
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### PITSTONE QUARRY, PITSTONE

### VIEWPOINT 13 - PHOTOMONTAGE - YEAR 33

VIEW SOUTH-WESTWARDS FROM A LOCALISED HIGH POINT ALONG THE RIDGEWAY (PAUL'S KNOB)



TRIPOD LOCATION

EXISTING VIEW

To be viewed at a comfortable arm's length

<b>Camera make &amp; model</b>	- Canon EOS 6D MkII	<b>Viewpoint height (AOD)</b>	- 127m	<b>Visualisation Type</b>	- Type 4 (LI TGN 06/19)
<b>Lens make &amp; focal length</b>	- Canon EF 50mm, f/1.4 USM	<b>Distance from site</b>	- 0m	<b>Horizontal Field of View</b>	- 90°
<b>Date &amp; time of photograph</b>	- 02/07/2024 @ 12:04	<b>Projection</b>	- Cylindrical	<b>Height of camera AGL</b>	- 1.5m
<b>OS grid reference</b>	- 494435, 214449	<b>Enlargement factor</b>	- 96%	<b>Page size / Image size (mm)</b>	- 841 x 297 / 820 x 235

### PITSTONE QUARRY, PITSTONE

#### VIEWPOINT 17A - EXISTING

VIEW LOCATED WEST OF LAKE ON SITE LOOKING SOUTH EAST



PHOTMONTAGE - YEAR 3

To be viewed at a comfortable arm's length

<b>Camera make &amp; model</b>	- Canon EOS 6D MkII	<b>Viewpoint height (AOD)</b>	- 127m	<b>Visualisation Type</b>	- Type 4 (LI TGN 06/19)
<b>Lens make &amp; focal length</b>	- Canon EF 50mm, f/1.4 USM	<b>Distance from site</b>	- 0m	<b>Horizontal Field of View</b>	- 90°
<b>Date &amp; time of photograph</b>	- 02/07/2024 @ 12:04	<b>Projection</b>	- Cylindrical	<b>Height of camera AGL</b>	- 1.5m
<b>OS grid reference</b>	- 494435, 214449	<b>Enlargement factor</b>	- 96%	<b>Page size / Image size (mm)</b>	- 841 x 297 / 820 x 235

**PITSTONE QUARRY, PITSTONE**  
**VIEWPOINT 17A - PHOTMONTAGE - YEAR 3**

VIEW LOCATED WEST OF LAKE ON SITE LOOKING SOUTH EAST



PHOTMONTAGE - YEAR 18

To be viewed at a comfortable arm's length

<b>Camera make &amp; model</b>	- Canon EOS 6D MkII	<b>Viewpoint height (AOD)</b>	- 127m	<b>Visualisation Type</b>	- Type 4 (LI TGN 06/19)
<b>Lens make &amp; focal length</b>	- Canon EF 50mm, f/1.4 USM	<b>Distance from site</b>	- 0m	<b>Horizontal Field of View</b>	- 90°
<b>Date &amp; time of photograph</b>	- 02/07/2024 @ 12:04	<b>Projection</b>	- Cylindrical	<b>Height of camera AGL</b>	- 1.5m
<b>OS grid reference</b>	- 494435, 214449	<b>Enlargement factor</b>	- 96%	<b>Page size / Image size (mm)</b>	- 841 x 297 / 820 x 235

**PITSTONE QUARRY, PITSTONE**  
**VIEWPOINT 17A - PHOTMONTAGE - YEAR 18**

VIEW LOCATED WEST OF LAKE ON SITE LOOKING SOUTH EAST





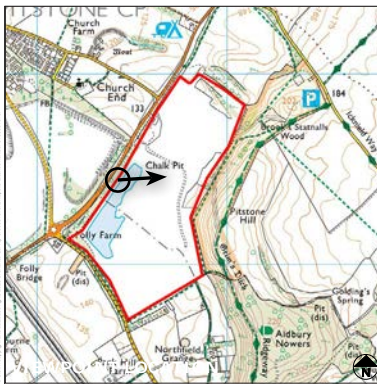
PHOTMONTAGE - YEAR 33

To be viewed at a comfortable arm's length

<b>Camera make &amp; model</b>	- Canon EOS 6D MkII	<b>Viewpoint height (AOD)</b>	- 127m	<b>Visualisation Type</b>	- Type 4 (LI TGN 06/19)
<b>Lens make &amp; focal length</b>	- Canon EF 50mm, f/1.4 USM	<b>Distance from site</b>	- 0m	<b>Horizontal Field of View</b>	- 90°
<b>Date &amp; time of photograph</b>	- 02/07/2024 @ 12:04	<b>Projection</b>	- Cylindrical	<b>Height of camera AGL</b>	- 1.5m
<b>OS grid reference</b>	- 494435, 214449	<b>Enlargement factor</b>	- 96%	<b>Page size / Image size (mm)</b>	- 841 x 297 / 820 x 235

**PITSTONE QUARRY, PITSTONE**  
**VIEWPOINT 17A - PHOTMONTAGE - YEAR 33**

VIEW LOCATED WEST OF LAKE ON SITE LOOKING SOUTH EAST



EXISTING VIEW

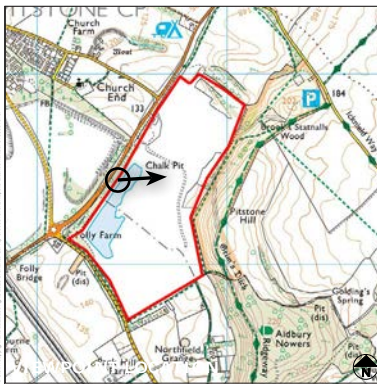
To be viewed at a comfortable arm's length

<b>Camera make &amp; model</b>	- Canon EOS 6D MkII	<b>Viewpoint height (AOD)</b>	- 127m	<b>Visualisation Type</b>	- Type 4 (LI TGN 06/19)
<b>Lens make &amp; focal length</b>	- Canon EF 50mm, f/1.4 USM	<b>Distance from site</b>	- 0m	<b>Horizontal Field of View</b>	- 90°
<b>Date &amp; time of photograph</b>	- 02/07/2024 @ 12:04	<b>Projection</b>	- Cylindrical	<b>Height of camera AGL</b>	- 1.5m
<b>OS grid reference</b>	- 494435, 214449	<b>Enlargement factor</b>	- 96%	<b>Page size / Image size (mm)</b>	- 841 x 297 / 820 x 235

**PITSTONE QUARRY, PITSTONE**

**VIEWPOINT 17A - EXISTING**

VIEW LOCATED WEST OF LAKE ON SITE LOOKING NORTH EAST



PHOTOMONTAGE - YEAR 3

To be viewed at a comfortable arm's length

<b>Camera make &amp; model</b>	- Canon EOS 6D MkII	<b>Viewpoint height (AOD)</b>	- 127m	<b>Visualisation Type</b>	- Type 4 (LI TGN 06/19)
<b>Lens make &amp; focal length</b>	- Canon EF 50mm, f/1.4 USM	<b>Distance from site</b>	- 0m	<b>Horizontal Field of View</b>	- 90°
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<b>OS grid reference</b>	- 494435, 214449	<b>Enlargement factor</b>	- 96%	<b>Page size / Image size (mm)</b>	- 841 x 297 / 820 x 235

**PITSTONE QUARRY, PITSTONE**  
**VIEWPOINT 17A - PHOTOMONTAGE - YEAR 3**

VIEW LOCATED WEST OF LAKE ON SITE LOOKING NORTH EAST



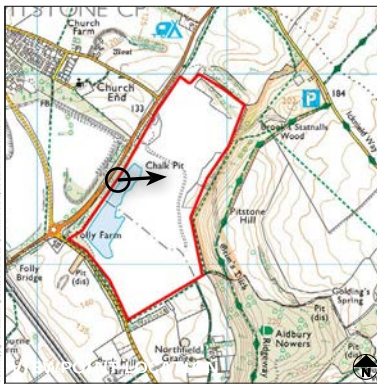
PHOTOMONTAGE - YEAR 18

To be viewed at a comfortable arm's length

<b>Camera make &amp; model</b>	- Canon EOS 6D MkII	<b>Viewpoint height (AOD)</b>	- 127m	<b>Visualisation Type</b>	- Type 4 (LI TGN 06/19)
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**PITSTONE QUARRY, PITSTONE**  
**VIEWPOINT 17A - PHOTOMONTAGE - YEAR 18**

VIEW LOCATED WEST OF LAKE ON SITE LOOKING NORTH EAST



PHOTOMONTAGE - YEAR 33

To be viewed at a comfortable arm's length

<b>Camera make &amp; model</b>	- Canon EOS 6D MkII	<b>Viewpoint height (AOD)</b>	- 127m	<b>Visualisation Type</b>	- Type 4 (LI TGN 06/19)
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**PITSTONE QUARRY, PITSTONE**  
**VIEWPOINT 17A - PHOTOMONTAGE - YEAR 33**

VIEW LOCATED WEST OF LAKE ON SITE LOOKING NORTH EAST