

HIGH-LEVEL TACTILE INSPECTIONS

SAMPLING PHASE 1
REPORT
Dundonald Castle
PIC194



HISTORIC
ENVIRONMENT
SCOTLAND

ÀRAINNEACHD
EACHDRAIDHEIL
ALBA

CONTROL SHEET

Document Control

Title:	High-Level Tactile Sample Inspection Project Phase 1 Report PIC194 Dundonald Castle
Authors:	[REDACTED]
Document created:	August 2021
Reviewed by:	[REDACTED]
Date Reviewed:	27/08/2021
Approved by:	[REDACTED]
Date of Approval:	30/08/2021
Version Number:	V0100

Version Control

Version	Date	Status	Prepared by	Amendments
V0001	17/08/2021	Draft	[REDACTED]	First draft
V0100	20/08/2021	Approved	[REDACTED]	Approved

HLTI Sampling: Report - Introduction



PIC ID # ↓	PIC194	Site name	Dundonald Castle		
Inspection start	02/08/2021	Inspection end	04/08/2021	Submission	30/08/2021
Lead HBFA	[REDACTED]				
Sample Inspectors	[REDACTED]				

Introduction:

As a result of findings on the first four full site High Level Tactile Inspections, SMT endorsed an accelerated programme that will see high-level tactile sample inspection carried out initially to 16 sites identified as having a high risk potential. The Sample inspection for Dundonald Castle was carried out in accordance with HES Management of Risk Procedures as set out in High-level Fabric Policy and High level Tactile Inspection Procedures.

The Sample Inspection Report only reports on high level fabric risks within pre-determined areas and does not provide any assessment of risk in other areas on site.

Tactile inspections of Two sample areas, East elevation and South Range, south elevation (agreed in advance by the T1 team and the Region) of the Castle were carried out and completed using a MEWP.

HLF Inspection Risk Matrix:

HES-T1C-HLF-RAS-X-X-V0200-RiskMatrix

Consequence \ Probability		1	2	3	4	5
		No injury	Minor injury	Moderate injury	Major injury	Fatal or life-altering injury
5	Fabric fall almost certain	5	10	15	20	25
4	Fabric fall highly likely	4	8	12	16	20
3	Fabric fall likely	3	6	9	12	15
2	Fabric fall unlikely	2	4	6	8	10
1	Fabric fall highly unlikely	1	2	3	4	5

RISK RATING	RISK SCORE RANGE
High	15-25
Medium	10- 14
Low	1-9

HLTI Sample Areas:

Area:	Colour:	Sample Area Name:
--------------	----------------	--------------------------

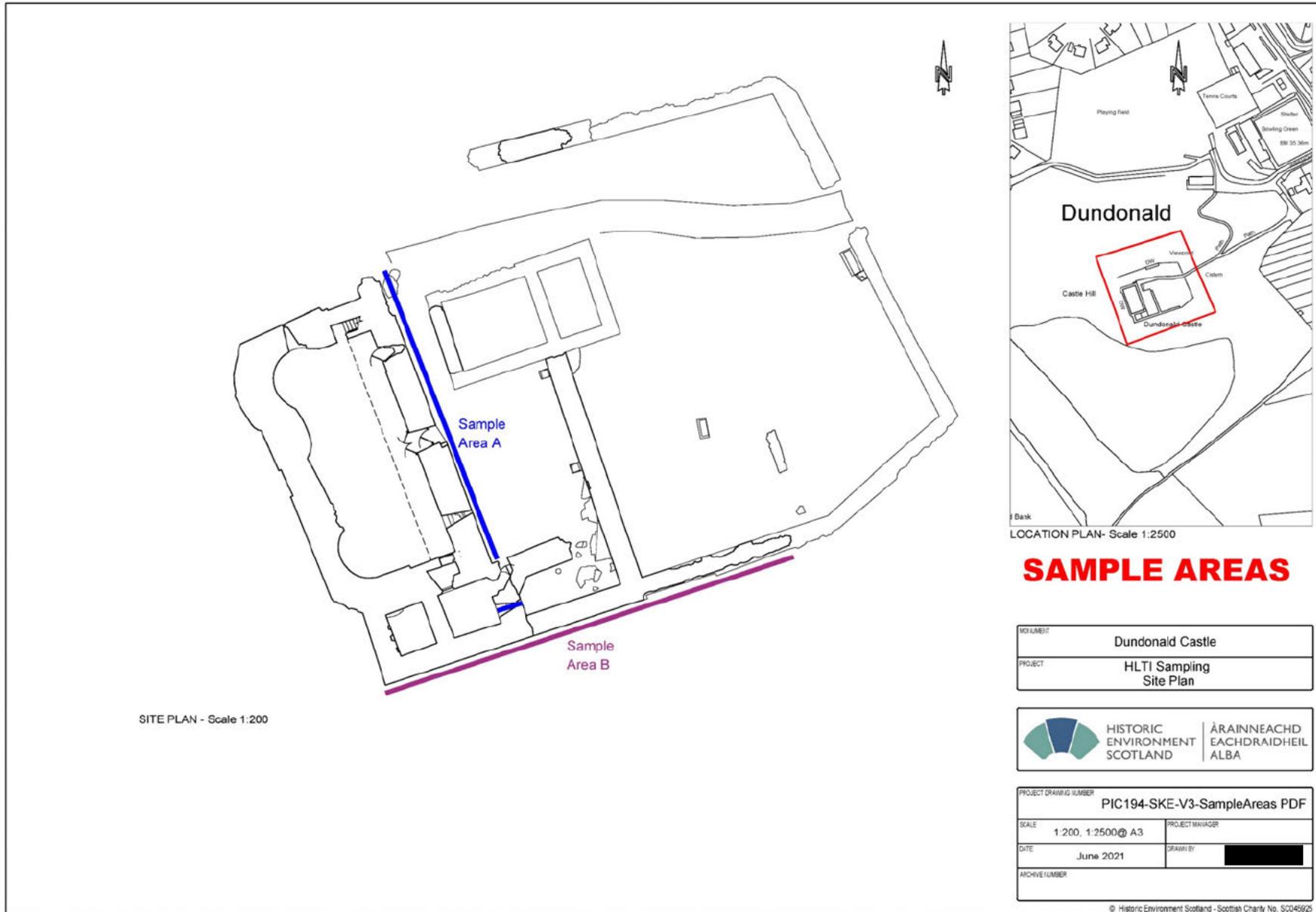
HLTI Sampling: Report - Introduction



A		East Elevation
B		South Range, South Elevations



Click on link to open drawing in PDF viewer: [PIC194-SKE-V3-SampleAreas](#)





HLTI Sampling: Report - Summary dashboard



PIC ID#	PIC194	Submission	30/08/2021
---------	--------	------------	------------

Select Sample area of which data should be displayed ↓	All areas
--------------------------------------------------------	-----------

Number of observations	15
------------------------	----

Identified Risk



Residual Risk



Inspection Action:

Class V Report = Fabric detached during tactile inspection	Access Restriction = Risk of fabric falling and causing harm			Monitor Observation / Plan Repairs = No immediate action
	High = Full site closure	Medium = Partial site closure	Low = Minor access restriction	
9	0	0	0	6

Inspection types:	Tactile	15	Visual	0
-------------------	---------	----	--------	---

Key comments:

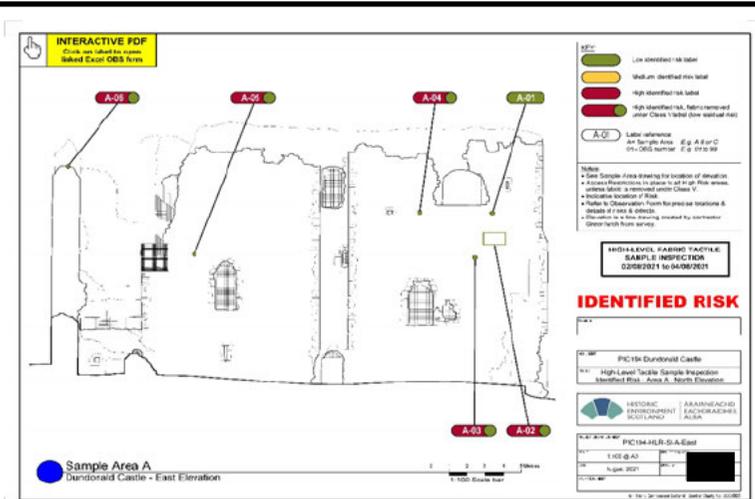
The castle is constructed from local igneous rock contrasted with blond sandstone quoins and lintels. While the sandstone showed signs of surface erosion, both stone types were found to be in mostly cohesive condition within the inspected areas. Pointing of the masonry appears tight with little and only minor vegetation growth while the wall heads of the tower are capped with asphalt.

The South wall (inspection area B) wall head is rough raked but tightly pointed. The main cause of fabric risk was a result of localised mortar decay which in a few instances resulted in loose pinning on the East elevation and a few loose wall head stones/large pinnings on the South elevation. Due to known unauthorised ingress of the site and walls, loose stones were removed as a safety precaution as all of them had the potential to kill, due to the height of their location, the hardness, weight and sharp cornered shapes of the stones. A separate Class V report and notification has been issued.



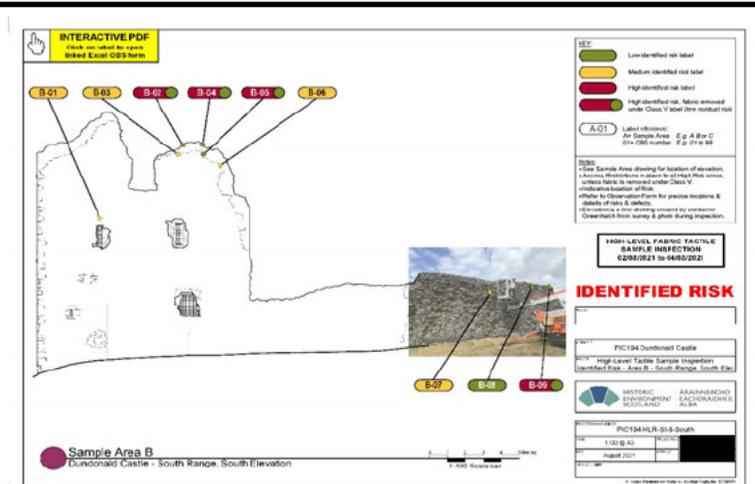
Click on link below image to open Interactive PDF in PDF viewer. In PDF viewer, the drawing is an interactive PDF, click on the labels to open the relevant OBS form for further information.

Sample Area A



[PIC194-HLR-SI-A.pdf](#)

Sample Area B



[PIC194-HLR-SI-B-South.pdf](#)