

# Delivery Report United Kingdom

EEA-FTSP-Sealing\_CountryDeliveryReport-UK

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## 1 INTRODUCTION

### 1.1 PURPOSE AND SCOPE

This document presents the country delivery report of EEA's Fast Track Service Precursor Sealing Product of United Kingdom.

According to the Tender Specifications, this report corresponds to deliverable 5 (38 Country delivery reports).

### 1.2 APPLICABLE DOCUMENTS

ITD-0490-PRO-0006	Proposal responding to EEA's Invitation for Tender, Technical Offer including Management Part –Issue 1

### 1.3 REFERENCE DOCUMENTS

EEA/IDS/07/001	Tender Specifications "GMES Fast Track Service on Land Monitoring", EEA, 2006
ISO9001	ISO 9001: 2000 Standard
ITD-QMS-POL-0001_Infoterra_Quality_Policy	Quality Policy Statement
QMS-ITD-MA-0011_QMSManual_I3.1	Quality Management System (QMS) Manual
ITD-UMS-POL-0001_Infoterra_Environmental_Policy	Declaration of Enterprise Environmental Policy
ITD-QMS-STD-0001-ControlOfDocumentation	Control of Documentation and Data
QMS-ITD-ST-0001_CSM	Customer Satisfaction Measurement
QMS-ITD-PR-0003_PM_ProductDevelopment_I4	Project Management, Product (Prototype) Development and Production

## 2 DATA SPECIFICATIONS

### 2.1 TECHNICAL PRODUCT SPECIFICATION

<b>Content</b>
<i>Raster dataset of built-up and non built-up areas including continuous degree of soil sealing ranging from 0 - 100% in full spatial resolution (20 x 20 m) with the associated metadata.</i>
<b>Geographic coverage</b>
<i>Country of United Kingdom (UK)- delivery comprises three tiles; UK1- Northern part of Great Britain, UK2- Northern Ireland and UK3- Southern part of Great Britain</i>
<i>Coverage [km<sup>2</sup>]: 244.820 (plus additional buffer of 200 meters outside of country border)</i>
<b>Input data sources</b>
<p><u>Input data provided by ESA:</u></p> <ul style="list-style-type: none"> <li>▪ <i>Orthorectified satellite data coverage for Europe (Image2006), acquired primarily in the reference year 2006 (+/- 1 year), covering two dates, used sensors SPOT 4 and 5 (HRVIR) and IRS-P6 LISS-III:</i> <ul style="list-style-type: none"> <li>• <i>20 m resampled (with cubic convolution interpolation)</i></li> <li>• <i>4 spectral bands</i></li> <li>• <i>Max. 5% cloud coverage</i></li> <li>• <i>Covering 2 dates, at least 6 weeks apart from the respect. scene selected for the first coverage</i></li> <li>• <i>Orthorectified towards national projection systems (used DTM unknown)</i></li> <li>• <i>Delivery on a country by country basis foreseen</i></li> <li>• <i>Metadata to each scene</i></li> </ul> </li> </ul> <p><u>Input data provided by EEA</u></p> <ul style="list-style-type: none"> <li>▪ <i>Dataset with national country borders (to be used for clipping the data at a national level) as defined and provided by the EEA</i></li> </ul> <p><u>Ancillary input data</u></p> <ul style="list-style-type: none"> <li>▪ <i>National Corine Land Cover 2000 data in vector format to be used for the stratification of the QA sample plots</i></li> </ul>
<b>Methodology</b>
<i>Supervised classification of built-up areas with following visual improvement of classification result and derivation of degree of soil sealing based on calibrated NDVI</i>
<b>Geometric resolution</b>
<i>Pixel resolution 20 x 20 m</i>

<b>Coordinate Reference System - Great Britain</b>
<i>Projection: Transverse Mercator</i> <i>False Easting: 400000,00</i> <i>False Northing: -100000,00</i> <i>Scale Factor: 0,99960127</i> <i>Central Meridian: -2°00'00,00"</i> <i>Latitude of Origin: 49°00'00,00"</i> <i>Datum: Airy 1830</i>
<b>Coordinate Reference System - Northern Ireland</b>
<i>Projection: Transverse Mercator</i> <i>False Easting: 200000,00</i> <i>False Northing: 250000,00</i> <i>Scale Factor: 1,000035</i> <i>Central Meridian: -8°00'00,00"</i> <i>Latitude of Origin: 53°30'00,00"</i> <i>Datum: Airy Modified 1849</i>
<b>Geometric accuracy (positioning scale)</b>
<i>According to orthorectified satellite image base delivered by ESA</i>
<b>Thematic accuracy (in %)</b>
<i>Classification accuracy per hectare (based on 100 x 100 m grid) of built-up non built-up areas is &gt; 85% (assessed according approach as described in chapter 4.1)</i>
<b>Accuracy assessment approach</b>
<i>Accuracy assessment based on random sample plots</i>
<b>Delivery format</b>
<i>IMAGINE Image (IMG)</i>
<b>Data type</b>
<i>Raster</i>
<b>Raster coding</b>
<i>Thematic pixel values</i> <i>0 – Non-built up areas, water bodies inland</i> <i>1-100 - sealing values for built-up areas</i> <i>254 – Unclassifiable areas (clouds, shadows, etc.)</i> <i>255 – No Data (No thematic information)</i>

<b>Metadata</b>
<i>According to EEA metadata standards (EEA MSGI specification)</i>
<b>Ancillary Data – Mitigation shape file</b>
<p><i>Metadata set per delivered country in vector format defining all areas which deviate from the ITT's EO data specifications (i.e. clouds, acquisition date). The vector layer is derived from image footprints and cloud cover information of Image2006 within the country border.</i></p> <p><i>The attribute table contains information about WU identification and possible deviations from the standard specifications of Image2006:</i></p> <ul style="list-style-type: none"> <li><i>[Cntr] Country Code;</i></li> <li><i>[SCU] Number of Sub-Country unit containing the Working Unit;</i></li> <li><i>[WU_ID] Full name of the Working Unit;</i></li> <li><i>[No_acqu] Number of acquisitions within the WU; 0 = gap / no image available;</i></li> <li><i>[Out_Veg] No of acquisition dates outside of country-specific vegetation period;</i></li> <li><i>[Below_6w] Acquisition dates less than 6 weeks apart;</i></li> <li><i>[Cloud_cov] Thematic value indicating the cloud coverage: No clouds = 1; Clouds present in coverage 1 = 2; Clouds present in Coverage 2 = 3; Clouds present in both coverages = 4</i></li> </ul>

## 2.2 ALGORITHMS USED

The aim of the image processing is to derive in a robust, reliable and reproducible way based on satellite images (Spot 4/5, IRS LISS) a raster dataset of built-up and non built-up areas including continuous degree of soil sealing ranging from 0 - 100% in full spatial resolution (20 x 20 m).

As the main challenge, the derivation of a continuous degree of soil sealing has to be solved. The proposed image processing approach is based on the fact that a reliable derivation of soil sealing degrees is not possible directly from the vegetation index. Low vegetation index values, which are characteristic for densely built-up areas are e.g. also found in bare soil areas of agricultural fields. Even when using multi-temporal satellite images with different acquisition dates in combination with bi-temporal, multi-spectral classification techniques the result may be improved, but the vegetation indices of two acquisitions are still too ambiguous.

Therefore, the proposed image processing approach will start with deriving a binary map of built-up areas and then further subdivide this area into 100 degrees of soil sealing, ranging from totally sealed surfaces (100% degree of soil sealing) up to built-up areas with extensive vegetation cover (1% degree of soil sealing). This allows the final user to aggregate the continuous values as required.

To be viable for this objective the classification methodology has to fulfil the following general criteria:

- Allow for local calibration of parameters used per working sub-area (as defined by satellite images) to overcome diversity of different regions in Europe and image immanent characteristics (such compensating for different settlement structures, ecozones, phonological and weather



conditions).

- Deliver the required accuracy
- Maximise consistency and objectivity of the results all over Europe
- Maximise cost-efficiency under given constraints
- Maximise standardisation of production and working motivation of the analysts
- Secure realisation in due time.

Based on these criteria, the proposed methodological approach consists of the following main steps:

- a) Data preparation & management: Provision of spatial database of bi-temporal satellite images and derived working sub-areas ("Working Units" = WU) to be processed in the following steps
- b) Core processing, containing the 3 main processing steps:
  - (1) Hybrid automated classification with supervised and unsupervised elements, leading to binary maps of built-up area
  - (2) Manual correction of the binary built-up map to obtain the required quantitative thematic accuracy (85%) as well as good qualitative results
  - (3) Derivation of degree of soil sealing based on the NDVI (Normalised Difference Vegetation Index)
- c) Generation of sub-country / country data sets
- d) Accuracy assessment
- e) Re-projection & mosaicing, generation of seamless European dataset.

## 2.3 FORMAT DESCRIPTION

<b>Delivery format</b>
<i>ERDAS IMAGINE Image (IMG)</i> <i>Data Type: unsigned 8-bit</i> <i>Compression: Run-length encoding (ESRI)</i> <i>Number of bands: 1</i> <i>Pixel size: 20 m</i>
<b>Data type</b>
<i>Thematic Raster</i>
<b>Metadata</b>
<i>According to EEA metadata standards (EEA MSGI specification)</i>

## 2.4 METADATA

See European Environment Agency – Metadata Standard for Geographic Information (EEA-MSGI), Version 1.1a (18 August 2004).

The metadata is provided as XML-file and as PDF-document according to EEA Metadata Standard for Geographic Information (EEA-MSGI).

### 3 SUMMARY OF PRODUCTION

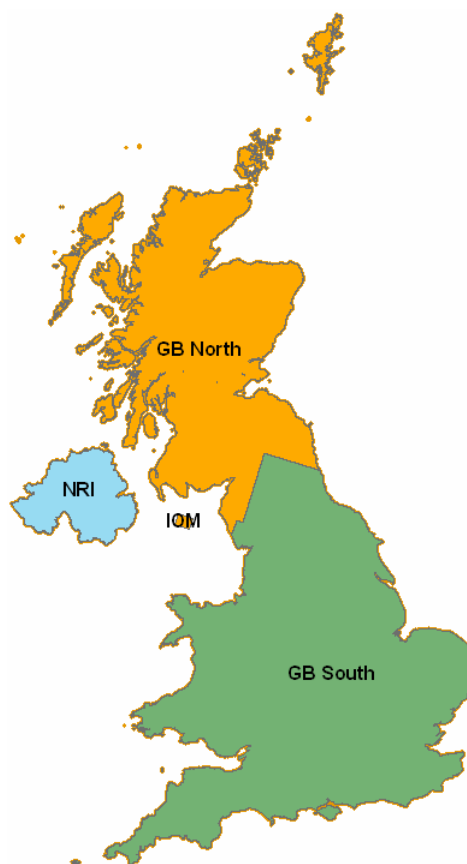
#### 3.1 TIMETABLE, PRODUCTION MILESTONES

Delivery by ESA	Data Reception	Data Preparation		Received by SP	Production	
		Start	End		Start	End
02.11.2007	08.11.2007	06.12.2007	31.01.2008	21.11.2007	01.02.2008	12.06.2008

#### 3.2 TECHNICAL PROBLEMS ENCOUNTERED, MITIGATION MEASURES

Because of the different projection systems of the State of Northern Ireland compared to the other states of Great Britain (see chapter 2.1 Technical Product Specification) and due to file size restrictions, the EEA-FTSP-Sealing of United Kingdom was split into three sub country files:

- UK1 - Northern part of Great Britain (Scotland, Isle of Man, north of England)
- UK2 - Northern Ireland
- UK3 - Southern part of Great Britain (south and middle of England, Wales)



The analysis of the GIS metadata file with respect to the ITT's specifications yielded the following results for Great Britain (Great Britain incl. Isle of Man (IOM) excl. Northern Ireland: 238.194 km<sup>2</sup>, Northern Ireland only (different Projection): 14.529 km<sup>2</sup>, total area: 252.723 km<sup>2</sup>. All values incl. 200m buffer area on country borders):

- Number of acquisitions:
  - o GB incl. IOM excl. NIR: one acquisition: 732 km<sup>2</sup> (0,3 %), two acquisitions: 237.462 km<sup>2</sup> (99,7 %)
  - o NIR: two acquisitions: 14.529 km<sup>2</sup> (100,0 %)
  - o total: one acquisition: 732 km<sup>2</sup> (0,3 %), two acquisition: 251.991 km<sup>2</sup> (99,7 %)
- Country area outside of vegetation period April-October:
  - o GB incl. IOM excl. NIR: 97.454 km<sup>2</sup> (40,9 %)
  - o NIR: 1.489 km<sup>2</sup> (10,2 %)
  - o total: 98.943 km<sup>2</sup> ( 39,2 %)
- Country area with acquisition dates less than 6 weeks apart:
  - o GB incl. IOM excl. NIR: 16.894 km<sup>2</sup> (7,1 %)
  - o NIR: 0 km<sup>2</sup> (0,0 %)
  - o total: 16.894 km<sup>2</sup> (6,7 %)
- Cloud coverage:
  - o No clouds in both coverages (multitemporal classified was applied to both coverages):
    - GB incl. IOM excl. NIR: 179.398 km<sup>2</sup> (75,3 %)
    - NIR: 8.637 km<sup>2</sup> (59,4 %)
    - total: 188035 km<sup>2</sup> (74,4 %)
  - o Clouds in both coverages:
    - GB incl. IOM excl. NIR: 5.089 km<sup>2</sup> (2,1 %)
    - NIR: 740 km<sup>2</sup> (5,1 %)
    - total: 5.829 km<sup>2</sup> (2,3 %)
  - o Clouds only in coverage 1(monotemporal classification was applied based on coverage 2):
    - GB incl. IOM excl. NIR: 24.238 km<sup>2</sup> (10,2 %)
    - NIR: 1.296 km<sup>2</sup> (8,9 %)
    - total: 25.534 km<sup>2</sup> ( 10,1 %)
  - o Clouds only in coverage 2 (monotemporal classification was applied based on coverage 1):
    - GB incl. IOM excl. NIR: 29.468 km<sup>2</sup> (12,4%)
    - NIR: 3.857 km<sup>2</sup> (26,5 %)
    - total: 33325 km<sup>2</sup> ( 13,2 %)

## 4 ACCURACY ASSESSMENT REPORT

### 4.1 DESCRIPTION OF APPROACH

The derivation of accuracy measures as agreed with EEA includes the following steps:

1. Definition of 100 x 100 m reference grid in national projection of the respective country assessed
2. Stratification of the area based on Corine Land Cover level I. To emphasize the accuracy assessment in the urban areas, 50 % of the sample plots are placed within CLC class Artificial Surfaces, the other 50 % are placed in the remaining classes.
3. Cluster based random sampling based on 100 x 100 m reference grid, defined per single nation, number of samples adapted to nation size in km<sup>2</sup>
4. Re-projection of reference samples to allow overlay with Google Earth
5. Estimation, if reference cell will be labelled as "built-up" according to EEA definition or not (80% threshold degree of soil sealing) taking into account the visibility of objects in the satellite images used for the production of the raster product (technically possible also when using Google Earth<sup>1</sup>)
6. Estimation of overall accuracy to generate accuracy measure (overall accuracy, user accuracy, (commission error), producer accuracy (omission error), per single nation (for internal use & validation only) and for European dataset for publication by EEA.
7. Adaptation of statistics with regard to the mitigation shape file. All sample plots falling within areas of the raster product, where the underlying IMAGE2006 data has been identified to fail the ITT's specifications, are not included in the final statistics. This includes areas where
  - Less than two coverages of EO data are available
  - One or more acquisition dates are outside the defined acquisition window
  - The acquisition dates of the two coverages used are less than six weeks apart
  - Cloud cover is present in one or more coverage

The built-up raster product which is subject to the accuracy assessment is accepted as according to the specifications if the final statistics indicate an overall accuracy of more than 85 %.

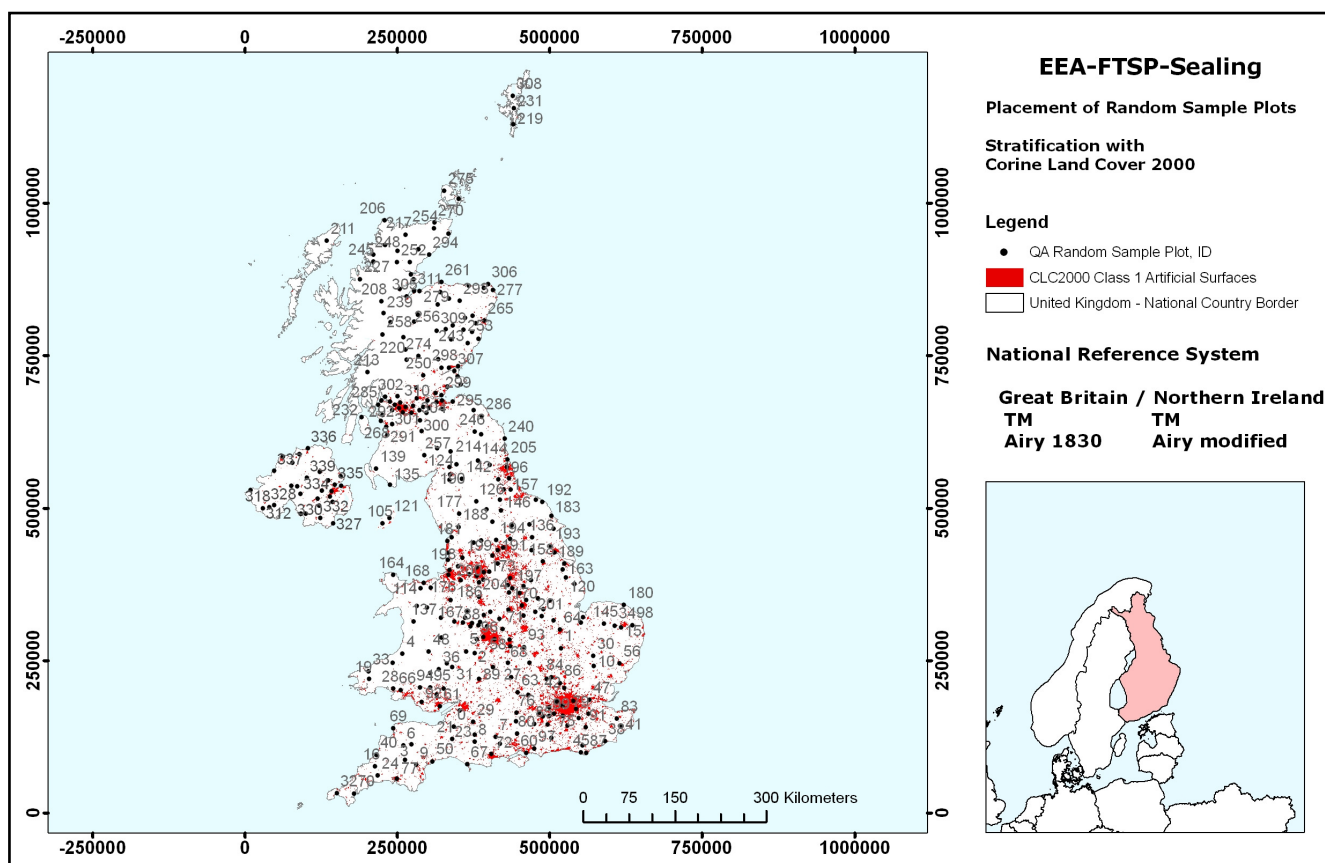
Accuracy assessment is performed per country product for internal quality control. For final acceptance by EEA, the overall accuracy of the European product is arbitative.

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<sup>1</sup> using web-based information input to a local server

## 4.2 SAMPLE PLACEMENT (STRATIFICATION, NUMBER & LOCATIONS OF SAMPLE SITES)

Overall number of sample plots: 340 (170 within CLC2000 Artificial Surfaces). The figure below shows the placement of sample plots (black dots) within CLC urban areas (red areas) and outside.



### 4.3 FINAL RESULT

The final accuracy assessment for the country product surpassed the threshold of an overall accuracy of 85 %.

Classification				Producer's Accuracy	Omission Error
Validation		>80%	<80%	$\Sigma$	
	>80%	9	19	28	32,1%
	<80%	0	227	227	100,0%
	$\Sigma$	9	246	255	0,0%
	User's Accuracy	100,0%	92,3%		
	Commission Error	0,0%	7,7%		
	Overall Accuracy	92,5%			

## 5 DETAILED LIST OF PROVIDED DATA

- Raster dataset of built-up and non built-up areas including degree of soil sealing, 2006, in full spatial resolution (20 m x 20 m). The data set of United Kingdom is delivered in three separated files according to different national reference systems of Great Britain and Northern Ireland and because of file size restrictions of Erdas Imagine (see chapter 3.2 Technical problems encountered, mitigation measures).
  - UK1 - Northern part of Great Britain (Scotland, Isle of Man, north of England)
  - UK2 - Northern Ireland
  - UK3 - Southern part of Great Britain (south and middle of England, Wales)
- ArcMap Legend File for raster data set for plotting a degree of soil sealing, aggregated to thematic classes
- ArcMap Legend File for raster data set for plotting a degree of soil sealing in a range from 1-100 %
- Mitigation shape file; metadata set per delivered country defining all areas which deviate from the ITT's EO data specifications. The shapes are divided according to the different national reference systems:
  - UK- Northern Ireland (TM, Airy Modified 1849)
  - UK- Great Britain (TM, Airy 1830)
- XML-Metadata of raster and vector data after EEA specifications
- EEA Metadata Stylesheet
- Report per Country with description of raster and vector data, country specific production & mitigation issues (the document at hand)
- Product inspection sheet for outgoing deliveries, ensuring product conformity of raster dataset
- National country borders in national projections



## ANNEX 1: INTERPRETATION GUIDELINE FOR VISUAL CORRECTION

### Objective

To produce a pixel-based high-resolution layer of built-up areas including degree of soil sealing for the EEA member states of homogeneous look & feel with an overall thematic accuracy of 85%.

### Definition of Built-up Areas

Built-up areas according to the consortium definition are represented by a degree of soil sealing between 1 and 100%.

Built-up area therefore comprises pixels that are fully or partly covered by houses, roads, mines and quarries and any other facilities, including their auxiliary spaces, deliberately installed for the pursuit of human activities. Built-up area does not include any fully vegetated pixels, even if they are closely related to these activities (such as city parks and gardens), or any other unvegetated non-built-up open spaces covered with bare soil, sand, glacier, bare rocks or water.

(modified according to [http://glossary.eea.europa.eu/EEAGlossary/B/built\\_up\\_land](http://glossary.eea.europa.eu/EEAGlossary/B/built_up_land))

### The FTSP in Relation to Corine Land Cover

The FTSP high resolution core land cover data is a complementary element of the GMES Fast Track Services. The data set will be a land cover product, reflecting actual ground cover on a pixel by pixel level rather than functional properties.

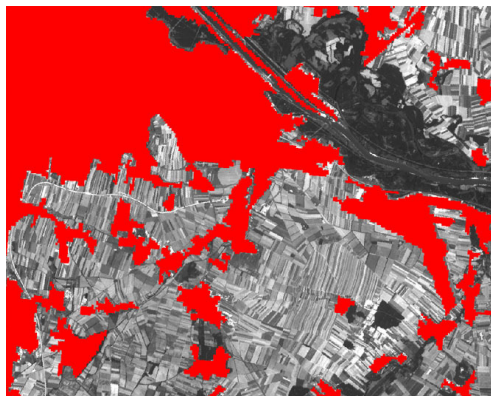
CLC level 1 class 'artificial surfaces' contains artificial surfaces and functionally related vegetated areas, reflecting the land use aspect. Therefore a significant part of this CLC level 1 class contains vegetated areas composed of fully vegetated pixels. However, in the FTSP product only pixels that contain some built-up/sealed area will be included.

In addition, built-up pixels within all other CLC level 1 classes (which are not mapped in CLC according to the 25ha MMU) will be included according to the above definition. Fully vegetated or unvegetated non-built-up pixels will be excluded.

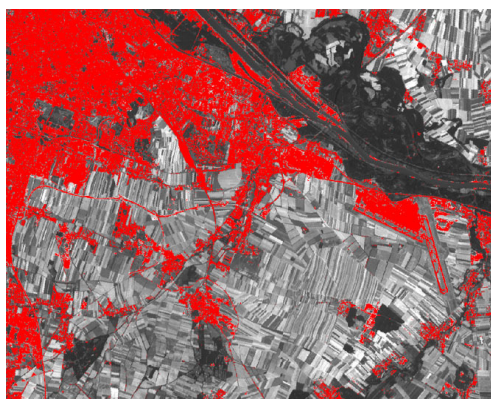
SPOT-4 satellite image over Vienna / Austria  
(green band; 20m resolution)



CLC 2000 - level 1 class "artificial surfaces"



FTSP high-resolution layer of built-up areas  
(20m resolution)



### Special Considerations

- The same definition of built-up areas shall apply for production and quality control.
- To ensure homogeneity across the whole of Europe, partially captured linear features outside of urban agglomerations (e.g. fragments of roads or railway lines) will not be completed by the manual post editing.
- Mines and quarries will be considered built-up areas according to the above definition.
- It is proposed to include a no-data class for unclassifiable areas (e.g., clouds) which is to be marked and identified during the process of manual interpretation.

## ANNEX 2: LIST OF WORKING UNITS AND EO DATA USED

The following list provides information about the two coverages of EO data which were used to create the working units. The file name is identical to the WU identification within the mitigation shapefile's attribute table and contains the specifications of sensors, paths/rows and capture dates.

The full file name is explained in the following:

[Sensor Coverage 1]\_[TrackFrame Coverage 1]\_[Capture Date YY/MM/DD Coverage 1]\_[Instrument Coverage 1]\_[Sensor Coverage 2]\_[TrackFrame Coverage 2]\_[Capture Date YY/MM/DD Coverage 2]\_[Instrument Coverage 2]

**Table 1: List of Working Units used for the production of United Kingdom**

SCU	Working Unit
1	irsp6_006025_070426_I30_spot4_014229_061014_2i0
1	irsp6_006025_070426_I30_spot5_014230_060508_1j0
1	irsp6_007026_070501_I30
1	irsp6_007026_070501_I30_spot4_013231_060217_1i0
1	irsp6_007026_070501_I30_spot4_013232_060217_1i0
1	irsp6_007026_070501_I30_spot4_013232_060626_2i8
1	irsp6_007026_070501_I30_spot4_014231_060222_2i0
1	irsp6_007026_070501_I30_spot4_014232_060222_2i0
1	irsp6_007026_070501_I30_spot4_017231_060610_2i0
1	irsp6_007026_070501_I30_spot4_017232_060908_2i0
1	irsp6_007026_070501_I30_spot4_017233_060610_1i0
1	irsp6_007026_070501_I30_spot5_013232_060915_1j0
1	irsp6_007026_070501_I30_spot5_014231_060508_1j0
1	irsp6_007026_070501_I30_spot5_014232_060508_1j0
1	irsp6_007027_070501_I30
1	irsp6_007027_070501_I30_irsp6_007026_070501_I30
1	irsp6_007027_070501_I30_spot4_013232_060626_2i8
1	irsp6_007027_070501_I30_spot4_013234_060626_2i0
1	irsp6_007027_070501_I30_spot4_014234_060626_1i0
1	irsp6_007027_070501_I30_spot4_014234_070428_2i0
1	irsp6_007027_070501_I30_spot4_014235_060626_1i0
1	irsp6_007027_070501_I30_spot4_017233_070430_2i0
1	irsp6_007027_070501_I30_spot4_017234_060131_1i0
1	irsp6_007027_070501_I30_spot4_017234_060610_1i0
1	irsp6_007027_070501_I30_spot4_017234_070430_2i0
1	irsp6_007027_070501_I30_spot4_017235_060510_2i0
1	irsp6_007027_070501_I30_spot4_017235_071007_1i0
1	irsp6_007027_070501_I30_spot5_017235_061102_2j0
1	spot4_010230_071006_2i0_spot4_010230_070428_1i0
1	spot4_010232_070428_1i0_spot4_010232_060505_1i0

SCU	Working Unit
1	spot4_010232_070927_1i0_spot4_010232_060505_1i0
1	spot4_010232_070927_1i0_spot4_010232_070428_1i0
1	spot4_010233_070927_1i0_spot4_010233_060505_1i0
1	spot4_010233_071006_2i0_spot4_010233_070503_1i0
1	spot4_010234_070927_1i0_spot4_010234_070428_1i0
1	spot4_013235_060626_2i0_spot4_013235_060303_2i0
1	spot4_014232_070503_2i0_irsp6_007026_070501_I30
1	spot4_014233_070428_2i0_spot4_013232_060626_2i8
1	spot4_017227_060221_2i0_irsp6_008024_050329_I30
1	spot4_017230_071001_1i0_spot4_017230_060610_2i0
1	spot4_017231_060610_2i0_spot4_017231_060222_1i0
1	spot4_017233_070430_2i0_irsp6_007026_070501_I30
1	spot4_017233_070822_2i0_spot4_017233_060610_1i0
1	spot4_017234_060131_1i0_irsp6_009027_060609_I30
1	spot4_017234_060610_1i0_spot4_017234_060131_1i0
1	spot4_017235_071007_1i0_irsp6_009027_060609_I30
1	spot4_017236_071007_1i0_irsp6_009028_060609_I30
1	spot4_018225_060507_1i0_irsp6_008023_050329_I30
1	spot4_018226_060507_1i0_spot4_018225_070216_1i5
1	spot4_018226_060507_1i0_spot4_018225_070216_1i9
1	spot4_018227_060923_2i0_irsp6_008024_050329_I30
1	spot4_018231_070425_2i0_spot4_017231_060216_1i0
1	spot4_018232_060510_2i0_spot4_017232_060216_1i0
1	spot4_018232_070430_1i5_spot4_018232_060216_2i0
1	spot4_018233_071002_1i0_irsp6_009027_060609_I30
1	spot4_018233_071002_1i0_spot4_018232_070430_1i5
1	spot4_018235_060824_1i0_irsp6_009027_060609_I30
1	spot4_018235_070822_1i0_irsp6_009027_060609_I30
1	spot4_021225_060316_1i0_spot4_018225_060507_1i0
1	spot4_021225_070912_2i8_spot4_018226_060507_1i0
1	spot4_021227_070429_2i0_spot4_018227_060923_2i0
1	spot4_021227_070429_2i0_spot4_021227_060923_1i0
1	spot4_021232_060430_1i0_spot4_021232_051110_2i5
1	spot4_021232_060510_1i7_spot4_021232_051110_2i5
1	spot4_021232_071024_1i6_spot4_021232_060510_1i7
1	spot4_021233_051110_2i5_irsp6_009027_060609_I30
1	spot4_021233_060430_1i0_spot4_021232_051110_2i5
1	spot4_021233_060430_1i0_spot4_021233_051110_2i5
1	spot4_021233_060510_1i7_spot4_021233_051110_2i5
1	spot4_021234_071024_2i0_irsp6_009027_060609_I30
1	spot4_021235_071108_2i0_irsp6_009027_060609_I30
1	spot4_021235_071108_2i0_spot4_021235_060505_2i0
1	spot4_022236_060909_1i0_spot4_022235_070430_1i7
1	spot5_010231_051023_1j0_spot4_010231_070930_2i0

SCU	Working Unit
1	spot5_010231_060629_2j0_spot4_010231_070428_1i0
1	spot5_013232_060915_1j0_spot4_013232_060217_1i0
1	spot5_017230_060715_2j0_spot4_017230_060216_1i0
1	spot5_017235_061102_2j0_spot4_017235_071007_1i0
1	spot5_018228_061012_2j4_spot4_018228_060510_1i0
1	spot5_018229_060715_2j0_spot4_017229_060216_1i0
1	spot5_018234_070203_1j0_irs6_009027_060609_130
1	spot5_021233_061103_2j6_spot4_021232_060510_1i7
1	spot5_021233_061103_2j6_spot4_021233_060510_1i7
1	spot5_021233_061103_2j9_spot4_021233_060510_1i7
1	spot5_021233_061103_2j9_spot4_021234_071024_2i0
1	spot5_021233_061103_2j9_spot4_022234_070430_1i7
1	spot5_022235_061022_1j1_spot4_021235_071108_2i0
1	spot5_022235_061022_1j1_spot4_022235_070430_1i7
1	spot5_022235_061103_2j0_spot4_022234_070430_1i7
2	irs6_007029_070501_130_irs6_007029_060717_130
2	irs6_008029_060511_130_irs6_007029_060717_130
2	spot4_014236_051030_2i6_irs6_008028_060511_130
2	spot4_014238_060221_2i0_spot4_014237_051030_2i6
2	spot4_017235_071007_1i0_irs6_009028_060609_130
2	spot4_017236_060221_1i0_irs6_008028_060511_130
2	spot4_017236_071007_1i0_irs6_008028_060511_130
2	spot4_017237_060627_2i5_irs6_008028_060511_130
2	spot4_017237_070822_2i0_irs6_008028_060511_130
2	spot4_017238_051030_1i0_irs6_008028_060511_130
2	spot4_017238_051030_1i0_irs6_008029_060511_130
2	spot4_017238_051109_1i0_irs6_008029_060511_130
2	spot4_017239_051109_1i0_irs6_008029_060511_130
2	spot4_017240_061023_2i0_irs6_008029_060511_130
2	spot4_018236_070822_1i0_irs6_009028_060609_130
2	spot4_018237_070125_2i6_irs6_009028_060609_130
2	spot4_018238_060510_1i4_irs6_010029_050526_130
2	spot4_018238_070125_2i2_irs6_010029_050526_130
2	spot4_018238_070125_2i2_spot4_018238_060510_1i4
2	spot4_021238_061109_2i0_irs6_009028_060609_130
2	spot4_021238_061109_2i0_irs6_010029_050526_130
2	spot4_021238_061109_2i0_spot4_021238_060908_1i0
2	spot4_021239_060607_2i0_irs6_010029_050526_130
2	spot4_022236_070908_1i0_spot4_021236_060510_1i0
2	spot4_022236_071023_1i1_spot4_022236_060602_1i4
2	spot4_022236_071023_1i1_spot4_022236_070908_1i0
2	spot4_022237_071023_1i1_spot4_022237_060602_1i4
2	spot4_022237_071023_1i1_spot4_022237_070430_1i0
2	spot4_022238_070430_1i0_spot4_021238_061109_2i0



SCU	Working Unit
2	spot4_022238_070430_1i0_spot4_022237_071023_1i1
2	spot4_025237_051115_1i8_irsp6_012028_060718_I30
2	spot4_025237_071014_1i0_irsp6_012028_060718_I30
2	spot5_017237_070203_1j0_irsp6_008028_060511_I30
2	spot5_017237_070203_1j0_irsp6_008028_060511_I30
2	spot5_018237_051118_2j0_irsp6_009028_060609_I30
2	spot5_018238_050424_2j0_spot4_018238_070125_2i2
2	spot5_021236_051113_2j0_irsp6_009028_060609_I30
2	spot5_021236_051113_2j0_spot4_021236_060505_2i0
2	spot5_021237_051113_2j0_irsp6_009028_060609_I30
2	spot5_021239_060329_2j0_irsp6_010029_050526_I30
2	spot5_022236_061109_1j1_spot4_022236_060602_1i4
2	spot5_022236_061109_1j1_spot4_022236_060909_1i0
2	spot5_022237_061109_1j1_irsp6_012028_060718_I30
2	spot5_022238_051119_1j0_irsp6_012029_070502_I31
2	spot5_022238_051119_1j0_spot4_022237_060602_1i4
2	spot5_022238_051119_1j0_spot4_022238_070430_1i0
2	spot5_022239_051119_1j0_irsp6_010029_050526_I30
2	spot5_022239_061102_2j0_irsp6_010029_050526_I30
3	irsp6_012029_070502_I30_irsp6_011030_060713_I30
3	irsp6_012029_070502_I30_irsp6_012029_060718_I30
3	irsp6_012029_070502_I31_irsp6_012028_060718_I30
3	irsp6_012029_070502_I31_irsp6_012029_060718_I30
3	irsp6_012030_060718_I30_irsp6_012029_070502_I30
3	irsp6_012030_070502_I30_irsp6_011030_060713_I30
3	irsp6_012030_070502_I30_irsp6_011031_060713_I30
3	irsp6_012030_070502_I30_irsp6_012030_060718_I30
3	spot4_022242_051015_2i0_irsp6_011030_060713_I30
3	spot4_022242_061014_1i0_irsp6_011030_060713_I30
3	spot4_022243_051015_2i0_irsp6_011031_060713_I30
3	spot4_022243_051121_2i0_irsp6_011030_060713_I30
3	spot4_022243_051121_2i0_irsp6_011031_060713_I30
3	spot4_026239_050422_2i0_irsp6_012028_060718_I30
3	spot4_026239_060128_1i2_irsp6_014029_060610_I30
3	spot4_026239_060128_1i2_spot4_026239_050422_2i0
3	spot4_026239_060128_2i6_irsp6_012029_060718_I30
3	spot4_029240_051117_1i0_irsp6_014029_060610_I30
3	spot4_029240_061120_1i2_irsp6_014029_060610_I30
3	spot4_029241_060301_1i0_irsp6_014030_060610_I30
3	spot4_029242_051101_1i0_irsp6_014030_060610_I30
3	spot4_029242_071019_1i0_irsp6_014030_060610_I30
3	spot5_021241_050712_1j6_spot4_022242_051015_2i0
3	spot5_021242_050712_1j6_spot4_022243_051015_2i0
3	spot5_022240_051119_1j0_spot4_022240_060607_1i0

SCU	Working Unit
3	spot5_022243_061107_1j5_irs6_011031_060713_I30
3	spot5_029239_061119_1j1_irs6_014029_060610_I30
3	spot5_029241_061103_2j0_irs6_014030_060610_I30
3	spot5_030241_061119_2j0_irs6_014029_060610_I30
3	spot5_030242_061119_2j0_irs6_014030_060610_I30
3	spot5_033242_061109_1j0_irs6_014030_060610_I30
4	irs6_011031_060713_I30_irs6_011031_050320_I30
4	irs6_011032_060713_I30_irs6_010032_060427_I30
4	irs6_011032_060713_I30_irs6_011031_050320_I30
4	irs6_012031_060718_I30_irs6_012030_070502_I30
4	irs6_012032_070502_I30_irs6_011032_060713_I30
4	irs6_012032_070502_I30_irs6_012032_060718_I30
4	irs6_013032_051101_I30_irs6_012031_060718_I30
4	irs6_013032_051101_I30_irs6_012032_060718_I30
4	irs6_014032_060610_I30_irs6_013032_051101_I30
4	irs6_015032_050714_I30_irs6_014032_060610_I30
4	spot4_022248_051015_2i6_irs6_010032_060427_I30
4	spot4_023248_061104_2i0_irs6_010032_060427_I30
4	spot4_024248_071023_1i0_irs6_012032_070502_I30
4	spot5_023249_060807_1j0_spot5_023249_060111_2j0
4	spot5_026245_061103_1j0_irs6_012031_060718_I30
4	spot5_028246_061104_2j6_irs6_013032_051101_I30
4	spot5_028247_061104_2j3_irs6_013032_051101_I30
4	spot5_029244_061104_2j6_irs6_014031_060610_I30
4	spot5_029245_061104_2j6_irs6_014032_060610_I30
4	spot5_030245_061119_1j0_irs6_014031_060610_I30
4	spot5_030246_061119_1j0_irs6_014032_060610_I30
4	spot5_030247_061119_1j0_irs6_014032_060610_I30
5	irs6_015030_050527_I30_irs6_014030_060610_I30
5	irs6_015030_050527_I30_irs6_014031_060610_I30
5	irs6_015031_050831_I30_irs6_014031_060610_I30
5	irs6_015031_050831_I30_irs6_015030_050527_I30
5	irs6_015032_050714_I30_irs6_015032_050316_I30
5	irs6_016030_070311_I30_irs6_015030_050527_I30
5	irs6_016030_070311_I30_irs6_015031_050831_I30
5	irs6_016031_070311_I30_irs6_015031_050831_I30
5	irs6_016031_070311_I30_irs6_015032_050316_I30
5	irs6_017031_060719_I30_irs6_016030_070311_I30
5	spot4_029243_071019_1i0_irs6_014030_060610_I30
5	spot4_029244_060908_1i0_spot4_029243_051101_1i8
5	spot4_030243_061121_1i3_irs6_014031_060610_I30
5	spot4_030244_061121_1i0_irs6_014031_060610_I30
5	spot4_033244_060719_1i7_irs6_015031_050831_I30
5	spot4_034245_060910_2i0_irs6_016031_070311_I30

SCU	Working Unit
5	spot4_034245_060910_2i0_irsp6_017031_060719_l30
5	spot4_035246_060910_2i0_irsp6_016031_070311_l30
5	spot4_035247_060910_2i0_irsp6_016031_070311_l30
5	spot5_029243_060917_2j0_spot4_029243_071019_1i0
5	spot5_029243_060917_2j0_spot5_029243_050622_1j0
5	spot5_030243_061119_2j0_irsp6_014030_060610_l30
5	spot5_030244_061029_1j0_irsp6_014031_060610_l30
5	spot5_033245_061109_1j0_irsp6_015031_050831_l30



### ANNEX 3: SAMPLE PLOT VALIDATION SHEET

Sample Plot 100 x100 m [ID]	FTSP Degrees of Soil Sealing [Mean Value]	FTSP Built up [TRUE / FALSE]	Reference Built up [TRUE / FALSE]	Compliance	Excluded by Mitigation Shape [TRUE / FALSE]
0	0,0	FALSE	FALSE	TRUE	FALSE
1	0,0	FALSE	FALSE	TRUE	TRUE
2	0,0	FALSE	FALSE	TRUE	FALSE
3	0,0	FALSE	FALSE	TRUE	FALSE
4	0,0	FALSE	FALSE	TRUE	FALSE
5	0,0	FALSE	FALSE	TRUE	FALSE
6	0,0	FALSE	FALSE	TRUE	FALSE
7	0,0	FALSE	FALSE	TRUE	TRUE
8	0,0	FALSE	FALSE	TRUE	TRUE
9	0,0	FALSE	FALSE	TRUE	FALSE
10	0,0	FALSE	FALSE	TRUE	FALSE
11	0,0	FALSE	FALSE	TRUE	FALSE
12	5,3	FALSE	FALSE	TRUE	FALSE
13	0,0	FALSE	FALSE	TRUE	FALSE
14	0,0	FALSE	FALSE	TRUE	FALSE
15	0,0	FALSE	FALSE	TRUE	FALSE
16	0,0	FALSE	FALSE	TRUE	TRUE
17	0,0	FALSE	FALSE	TRUE	TRUE
18	0,0	FALSE	FALSE	TRUE	FALSE
19	0,0	FALSE	FALSE	TRUE	TRUE
20	0,0	FALSE	FALSE	TRUE	FALSE
21	0,0	FALSE	FALSE	TRUE	FALSE
22	0,0	FALSE	FALSE	TRUE	FALSE
23	0,0	FALSE	FALSE	TRUE	TRUE
24	0,0	FALSE	FALSE	TRUE	FALSE
25	0,0	FALSE	FALSE	TRUE	TRUE
26	2,7	FALSE	FALSE	TRUE	FALSE
27	0,0	FALSE	FALSE	TRUE	FALSE
28	254,0	NO DATA	FALSE	FALSE	TRUE
29	0,0	FALSE	FALSE	TRUE	TRUE
30	0,0	FALSE	FALSE	TRUE	FALSE
31	2,4	FALSE	FALSE	TRUE	FALSE
32	0,0	FALSE	FALSE	TRUE	FALSE
33	254,0	NO DATA	FALSE	FALSE	TRUE
34	0,0	FALSE	FALSE	TRUE	FALSE
35	0,0	FALSE	FALSE	TRUE	TRUE
36	0,0	FALSE	FALSE	TRUE	TRUE

Sample Plot 100 x100 m [ID]	FTSP Degrees of Soil Sealing [Mean Value]	FTSP Built up [TRUE / FALSE]	Reference Built up [TRUE / FALSE]	Compliance	Excluded by Mitigation Shape [TRUE / FALSE]
37	0,0	FALSE	FALSE	TRUE	FALSE
38	0,0	FALSE	FALSE	TRUE	FALSE
39	0,0	FALSE	FALSE	TRUE	FALSE
40	0,0	FALSE	FALSE	TRUE	FALSE
41	0,0	FALSE	FALSE	TRUE	FALSE
42	0,0	FALSE	FALSE	TRUE	FALSE
43	0,0	FALSE	FALSE	TRUE	FALSE
44	0,0	FALSE	FALSE	TRUE	FALSE
45	0,0	FALSE	FALSE	TRUE	FALSE
46	0,0	FALSE	FALSE	TRUE	FALSE
47	0,0	FALSE	FALSE	TRUE	FALSE
48	0,0	FALSE	FALSE	TRUE	FALSE
49	254,0	NO DATA	FALSE	FALSE	TRUE
50	16,6	FALSE	FALSE	TRUE	FALSE
51	70,2	FALSE	TRUE	FALSE	FALSE
52	45,2	FALSE	FALSE	TRUE	FALSE
53	0,0	FALSE	FALSE	TRUE	FALSE
54	62,8	FALSE	FALSE	TRUE	FALSE
55	26,3	FALSE	FALSE	TRUE	FALSE
56	58,2	FALSE	FALSE	TRUE	FALSE
57	51,9	FALSE	FALSE	TRUE	FALSE
58	84,3	TRUE	TRUE	TRUE	FALSE
59	37,4	FALSE	FALSE	TRUE	FALSE
60	30,9	FALSE	FALSE	TRUE	TRUE
61	34,2	FALSE	FALSE	TRUE	FALSE
62	31,0	FALSE	FALSE	TRUE	FALSE
63	30,5	FALSE	FALSE	TRUE	FALSE
64	84,7	TRUE	TRUE	TRUE	TRUE
65	67,4	FALSE	TRUE	FALSE	FALSE
66	41,0	FALSE	FALSE	TRUE	TRUE
67	76,4	FALSE	TRUE	FALSE	FALSE
68	24,4	FALSE	FALSE	TRUE	FALSE
69	51,4	FALSE	FALSE	TRUE	FALSE
70	26,5	FALSE	FALSE	TRUE	TRUE
71	57,2	FALSE	FALSE	TRUE	FALSE
72	21,3	FALSE	FALSE	TRUE	TRUE
73	0,0	FALSE	FALSE	TRUE	FALSE
74	62,9	FALSE	FALSE	TRUE	FALSE
75	8,1	FALSE	FALSE	TRUE	FALSE

Sample Plot 100 x100 m [ID]	FTSP Degrees of Soil Sealing [Mean Value]	FTSP Built up [TRUE / FALSE]	Reference Built up [TRUE / FALSE]	Compliance	Excluded by Mitigation Shape [TRUE / FALSE]
76	27,2	FALSE	FALSE	TRUE	TRUE
77	7,0	FALSE	FALSE	TRUE	FALSE
78	33,3	FALSE	FALSE	TRUE	FALSE
79	1,4	FALSE	FALSE	TRUE	FALSE
80	57,5	FALSE	TRUE	FALSE	TRUE
81	58,4	FALSE	FALSE	TRUE	TRUE
82	0,0	FALSE	FALSE	TRUE	FALSE
83	32,7	FALSE	FALSE	TRUE	FALSE
84	59,4	FALSE	FALSE	TRUE	FALSE
85	45,2	FALSE	FALSE	TRUE	FALSE
86	14,6	FALSE	FALSE	TRUE	FALSE
87	0,0	FALSE	FALSE	TRUE	FALSE
88	1,8	FALSE	FALSE	TRUE	FALSE
89	65,2	FALSE	FALSE	TRUE	FALSE
90	12,9	FALSE	FALSE	TRUE	TRUE
91	1,3	FALSE	FALSE	TRUE	TRUE
92	0,0	FALSE	FALSE	TRUE	TRUE
93	46,3	FALSE	FALSE	TRUE	TRUE
94	23,8	FALSE	FALSE	TRUE	FALSE
95	48,5	FALSE	FALSE	TRUE	TRUE
96	0,0	FALSE	FALSE	TRUE	FALSE
97	0,0	FALSE	FALSE	TRUE	FALSE
98	38,4	FALSE	FALSE	TRUE	FALSE
99	17,3	FALSE	FALSE	TRUE	FALSE
100	0,0	FALSE	FALSE	TRUE	FALSE
101	0,0	FALSE	FALSE	TRUE	FALSE
102	9,7	FALSE	FALSE	TRUE	FALSE
103	0,0	FALSE	FALSE	TRUE	FALSE
104	33,1	FALSE	FALSE	TRUE	FALSE
105	0,0	FALSE	FALSE	TRUE	TRUE
106	0,0	FALSE	FALSE	TRUE	FALSE
107	0,0	FALSE	FALSE	TRUE	FALSE
108	0,0	FALSE	FALSE	TRUE	FALSE
109	0,0	FALSE	FALSE	TRUE	FALSE
110	0,0	FALSE	FALSE	TRUE	FALSE
111	0,0	FALSE	FALSE	TRUE	FALSE
112	1,6	FALSE	FALSE	TRUE	FALSE
113	0,0	FALSE	FALSE	TRUE	FALSE
114	0,0	FALSE	FALSE	TRUE	FALSE

Sample Plot 100 x100 m [ID]	FTSP Degrees of Soil Sealing [Mean Value]	FTSP Built up [TRUE / FALSE]	Reference Built up [TRUE / FALSE]	Compliance	Excluded by Mitigation Shape [TRUE / FALSE]
115	0,0	FALSE	FALSE	TRUE	FALSE
116	0,0	FALSE	FALSE	TRUE	FALSE
117	0,0	FALSE	FALSE	TRUE	TRUE
118	0,0	FALSE	FALSE	TRUE	TRUE
119	0,0	FALSE	FALSE	TRUE	FALSE
120	0,0	FALSE	FALSE	TRUE	FALSE
121	255,0	NO DATA	FALSE	FALSE	TRUE
122	0,0	FALSE	FALSE	TRUE	FALSE
123	0,0	FALSE	FALSE	TRUE	TRUE
124	0,0	FALSE	FALSE	TRUE	TRUE
125	17,6	FALSE	FALSE	TRUE	TRUE
126	0,0	FALSE	FALSE	TRUE	FALSE
127	0,0	FALSE	FALSE	TRUE	TRUE
128	0,0	FALSE	FALSE	TRUE	TRUE
129	0,0	FALSE	FALSE	TRUE	FALSE
130	0,0	FALSE	FALSE	TRUE	TRUE
131	0,0	FALSE	FALSE	TRUE	FALSE
132	0,0	FALSE	FALSE	TRUE	FALSE
133	0,0	FALSE	FALSE	TRUE	TRUE
134	0,0	FALSE	FALSE	TRUE	FALSE
135	0,0	FALSE	FALSE	TRUE	FALSE
136	0,0	FALSE	FALSE	TRUE	FALSE
137	0,0	FALSE	FALSE	TRUE	FALSE
138	0,0	FALSE	FALSE	TRUE	FALSE
139	0,0	FALSE	FALSE	TRUE	TRUE
140	0,0	FALSE	FALSE	TRUE	FALSE
141	0,0	FALSE	FALSE	TRUE	FALSE
142	0,0	FALSE	FALSE	TRUE	FALSE
143	0,0	FALSE	FALSE	TRUE	FALSE
144	1,9	FALSE	FALSE	TRUE	TRUE
145	0,0	FALSE	FALSE	TRUE	FALSE
146	0,0	FALSE	FALSE	TRUE	TRUE
147	0,0	FALSE	FALSE	TRUE	FALSE
148	0,0	FALSE	FALSE	TRUE	FALSE
149	0,0	FALSE	FALSE	TRUE	FALSE
150	0,0	FALSE	FALSE	TRUE	FALSE
151	0,0	FALSE	FALSE	TRUE	FALSE
152	0,0	FALSE	FALSE	TRUE	FALSE
153	66,9	FALSE	TRUE	FALSE	FALSE

Sample Plot 100 x100 m [ID]	FTSP Degrees of Soil Sealing [Mean Value]	FTSP Built up [TRUE / FALSE]	Reference Built up [TRUE / FALSE]	Compliance	Excluded by Mitigation Shape [TRUE / FALSE]
154	0,0	FALSE	FALSE	TRUE	FALSE
155	0,0	FALSE	FALSE	TRUE	FALSE
156	56,1	FALSE	FALSE	TRUE	FALSE
157	47,6	FALSE	FALSE	TRUE	TRUE
158	97,6	TRUE	TRUE	TRUE	FALSE
159	3,6	FALSE	FALSE	TRUE	FALSE
160	56,5	FALSE	FALSE	TRUE	FALSE
161	0,0	FALSE	FALSE	TRUE	TRUE
162	30,4	FALSE	FALSE	TRUE	FALSE
163	15,0	FALSE	FALSE	TRUE	FALSE
164	54,2	FALSE	FALSE	TRUE	TRUE
165	82,6	TRUE	TRUE	TRUE	FALSE
166	45,0	FALSE	FALSE	TRUE	FALSE
167	33,4	FALSE	FALSE	TRUE	FALSE
168	68,0	FALSE	TRUE	FALSE	FALSE
169	70,2	FALSE	TRUE	FALSE	FALSE
170	80,0	TRUE	TRUE	TRUE	FALSE
171	51,8	FALSE	FALSE	TRUE	FALSE
172	84,6	TRUE	TRUE	TRUE	FALSE
173	50,7	FALSE	FALSE	TRUE	FALSE
174	38,2	FALSE	FALSE	TRUE	TRUE
175	91,5	TRUE	TRUE	TRUE	FALSE
176	84,1	TRUE	TRUE	TRUE	FALSE
177	30,7	FALSE	FALSE	TRUE	FALSE
178	48,6	FALSE	FALSE	TRUE	FALSE
179	45,3	FALSE	FALSE	TRUE	FALSE
180	44,5	FALSE	FALSE	TRUE	FALSE
181	76,1	FALSE	FALSE	TRUE	FALSE
182	69,2	FALSE	TRUE	FALSE	FALSE
183	90,7	TRUE	TRUE	TRUE	TRUE
184	46,8	FALSE	FALSE	TRUE	FALSE
185	45,0	FALSE	FALSE	TRUE	TRUE
186	38,9	FALSE	FALSE	TRUE	FALSE
187	49,8	FALSE	FALSE	TRUE	FALSE
188	90,1	TRUE	TRUE	TRUE	FALSE
189	79,0	FALSE	TRUE	FALSE	TRUE
190	1,6	FALSE	FALSE	TRUE	FALSE
191	49,9	FALSE	FALSE	TRUE	FALSE
192	46,5	FALSE	FALSE	TRUE	FALSE

Sample Plot 100 x100 m [ID]	FTSP Degrees of Soil Sealing [Mean Value]	FTSP Built up [TRUE / FALSE]	Reference Built up [TRUE / FALSE]	Compliance	Excluded by Mitigation Shape [TRUE / FALSE]
193	45,9	FALSE	FALSE	TRUE	FALSE
194	71,1	FALSE	TRUE	FALSE	FALSE
195	44,9	FALSE	FALSE	TRUE	FALSE
196	50,4	FALSE	FALSE	TRUE	TRUE
197	51,7	FALSE	FALSE	TRUE	FALSE
198	32,4	FALSE	FALSE	TRUE	FALSE
199	28,3	FALSE	FALSE	TRUE	FALSE
200	68,6	FALSE	TRUE	FALSE	FALSE
201	0,0	FALSE	FALSE	TRUE	TRUE
202	7,3	FALSE	FALSE	TRUE	FALSE
203	0,0	FALSE	FALSE	TRUE	FALSE
204	4,6	FALSE	FALSE	TRUE	FALSE
205	68,2	FALSE	FALSE	TRUE	FALSE
206	0,0	FALSE	FALSE	TRUE	FALSE
207	0,0	FALSE	FALSE	TRUE	FALSE
208	0,0	FALSE	FALSE	FALSE	FALSE
209	0,0	FALSE	FALSE	TRUE	FALSE
210	0,0	FALSE	FALSE	TRUE	FALSE
211	0,0	FALSE	FALSE	TRUE	FALSE
212	0,0	FALSE	FALSE	TRUE	FALSE
213	0,0	FALSE	FALSE	TRUE	FALSE
214	0,0	FALSE	FALSE	TRUE	TRUE
215	0,0	FALSE	FALSE	TRUE	FALSE
216	0,0	FALSE	FALSE	TRUE	FALSE
217	0,0	FALSE	FALSE	TRUE	FALSE
218	0,0	FALSE	FALSE	TRUE	TRUE
219	0,0	FALSE	FALSE	TRUE	TRUE
220	0,0	FALSE	FALSE	TRUE	FALSE
221	0,0	FALSE	FALSE	TRUE	TRUE
222	0,0	FALSE	FALSE	TRUE	TRUE
223	0,0	FALSE	FALSE	TRUE	FALSE
224	0,0	FALSE	FALSE	TRUE	FALSE
225	0,0	FALSE	FALSE	TRUE	FALSE
226	0,0	FALSE	FALSE	TRUE	FALSE
227	0,0	FALSE	FALSE	TRUE	TRUE
228	0,0	FALSE	FALSE	TRUE	TRUE
229	0,0	FALSE	FALSE	TRUE	FALSE
230	0,0	FALSE	FALSE	TRUE	FALSE
231	0,0	FALSE	FALSE	TRUE	FALSE

Sample Plot 100 x100 m [ID]	FTSP Degrees of Soil Sealing [Mean Value]	FTSP Built up [TRUE / FALSE]	Reference Built up [TRUE / FALSE]	Compliance	Excluded by Mitigation Shape [TRUE / FALSE]
232	0,0	FALSE	FALSE	TRUE	FALSE
233	0,0	FALSE	FALSE	TRUE	FALSE
234	0,0	FALSE	FALSE	TRUE	FALSE
235	0,0	FALSE	FALSE	TRUE	FALSE
236	0,0	FALSE	FALSE	TRUE	FALSE
237	0,0	FALSE	FALSE	TRUE	FALSE
238	0,0	FALSE	FALSE	TRUE	FALSE
239	0,0	FALSE	FALSE	TRUE	FALSE
240	1,2	FALSE	FALSE	TRUE	FALSE
241	0,0	FALSE	FALSE	TRUE	FALSE
242	0,0	FALSE	FALSE	TRUE	FALSE
243	0,0	FALSE	FALSE	TRUE	TRUE
244	0,0	FALSE	FALSE	TRUE	FALSE
245	0,0	FALSE	FALSE	TRUE	FALSE
246	0,0	FALSE	FALSE	TRUE	TRUE
247	0,0	FALSE	FALSE	TRUE	FALSE
248	0,0	FALSE	FALSE	TRUE	FALSE
249	0,0	FALSE	FALSE	TRUE	TRUE
250	0,0	FALSE	FALSE	TRUE	TRUE
251	0,0	FALSE	FALSE	TRUE	FALSE
252	0,0	FALSE	FALSE	TRUE	FALSE
253	0,0	FALSE	FALSE	TRUE	FALSE
254	0,0	FALSE	FALSE	TRUE	FALSE
255	0,0	FALSE	FALSE	TRUE	FALSE
256	0,0	FALSE	FALSE	TRUE	FALSE
257	0,0	FALSE	FALSE	TRUE	TRUE
258	0,0	FALSE	FALSE	TRUE	FALSE
259	254,0	NO DATA	FALSE	FALSE	TRUE
260	67,0	FALSE	FALSE	TRUE	FALSE
261	56,5	FALSE	FALSE	TRUE	TRUE
262	0,0	FALSE	FALSE	TRUE	FALSE
263	66,5	FALSE	TRUE	FALSE	FALSE
264	53,8	FALSE	FALSE	TRUE	FALSE
265	77,3	FALSE	FALSE	TRUE	TRUE
266	64,7	FALSE	TRUE	FALSE	FALSE
267	0,0	FALSE	FALSE	TRUE	FALSE
268	14,1	FALSE	FALSE	TRUE	FALSE
269	47,9	FALSE	TRUE	FALSE	FALSE
270	74,0	FALSE	FALSE	TRUE	FALSE

Sample Plot 100 x100 m [ID]	FTSP Degrees of Soil Sealing [Mean Value]	FTSP Built up [TRUE / FALSE]	Reference Built up [TRUE / FALSE]	Compliance	Excluded by Mitigation Shape [TRUE / FALSE]
271	56,3	FALSE	FALSE	TRUE	TRUE
272	0,0	FALSE	FALSE	TRUE	FALSE
273	6,3	FALSE	FALSE	TRUE	FALSE
274	52,4	FALSE	FALSE	TRUE	FALSE
275	0,0	FALSE	FALSE	TRUE	FALSE
276	18,5	FALSE	FALSE	TRUE	FALSE
277	7,3	FALSE	FALSE	TRUE	FALSE
278	21,1	FALSE	FALSE	TRUE	FALSE
279	59,7	FALSE	FALSE	TRUE	FALSE
280	9,3	FALSE	FALSE	TRUE	FALSE
281	16,3	FALSE	FALSE	TRUE	FALSE
282	254,0	NO DATA	FALSE	FALSE	TRUE
283	0,0	FALSE	FALSE	TRUE	FALSE
284	19,1	FALSE	FALSE	TRUE	FALSE
285	60,7	FALSE	FALSE	TRUE	TRUE
286	27,9	FALSE	FALSE	TRUE	TRUE
287	0,0	FALSE	FALSE	TRUE	FALSE
288	29,7	FALSE	FALSE	TRUE	FALSE
289	23,1	FALSE	FALSE	TRUE	FALSE
290	53,0	FALSE	FALSE	TRUE	FALSE
291	1,4	FALSE	FALSE	TRUE	TRUE
292	76,1	FALSE	TRUE	FALSE	TRUE
293	53,8	FALSE	FALSE	TRUE	FALSE
294	73,3	FALSE	FALSE	TRUE	TRUE
295	0,0	FALSE	FALSE	TRUE	FALSE
296	52,8	FALSE	FALSE	TRUE	FALSE
297	29,4	FALSE	FALSE	TRUE	TRUE
298	48,0	FALSE	FALSE	TRUE	TRUE
299	79,9	FALSE	TRUE	FALSE	FALSE
300	29,0	FALSE	FALSE	TRUE	TRUE
301	45,1	FALSE	FALSE	TRUE	FALSE
302	24,9	FALSE	FALSE	TRUE	FALSE
303	40,8	FALSE	FALSE	TRUE	TRUE
304	48,0	FALSE	FALSE	TRUE	FALSE
305	0,5	FALSE	FALSE	TRUE	FALSE
306	81,3	TRUE	TRUE	TRUE	FALSE
307	254,0	NO DATA	FALSE	FALSE	TRUE
308	53,6	FALSE	TRUE	FALSE	FALSE
309	55,6	FALSE	FALSE	TRUE	FALSE



Sample Plot 100 x100 m [ID]	FTSP Degrees of Soil Sealing [Mean Value]	FTSP Built up [TRUE / FALSE]	Reference Built up [TRUE / FALSE]	Compliance	Excluded by Mitigation Shape [TRUE / FALSE]
310	13,9	FALSE	FALSE	TRUE	FALSE
311	0,0	FALSE	FALSE	TRUE	FALSE
312	0,4	FALSE	FALSE	TRUE	FALSE
313	5,3	FALSE	FALSE	TRUE	FALSE
314	0,0	FALSE	FALSE	TRUE	FALSE
315	0,0	FALSE	FALSE	TRUE	FALSE
316	72,5	FALSE	TRUE	FALSE	TRUE
317	0,0	FALSE	FALSE	TRUE	TRUE
318	0,0	FALSE	FALSE	TRUE	FALSE
319	0,0	FALSE	FALSE	TRUE	TRUE
320	0,0	FALSE	FALSE	TRUE	FALSE
321	5,3	FALSE	FALSE	TRUE	FALSE
322	13,0	FALSE	FALSE	TRUE	FALSE
323	0,0	FALSE	FALSE	TRUE	FALSE
324	0,0	FALSE	FALSE	TRUE	FALSE
325	254,0	NO DATA	FALSE	FALSE	TRUE
326	35,2	FALSE	FALSE	TRUE	FALSE
327	24,9	FALSE	FALSE	TRUE	TRUE
328	1,7	FALSE	FALSE	TRUE	TRUE
329	59,6	FALSE	TRUE	FALSE	FALSE
330	77,3	FALSE	TRUE	FALSE	FALSE
331	4,9	FALSE	FALSE	TRUE	FALSE
332	36,4	FALSE	TRUE	FALSE	TRUE
333	17,9	FALSE	FALSE	TRUE	FALSE
334	53,0	FALSE	TRUE	FALSE	FALSE
335	35,4	FALSE	FALSE	TRUE	FALSE
336	67,5	FALSE	TRUE	FALSE	FALSE
337	46,5	FALSE	FALSE	TRUE	TRUE
338	2,7	FALSE	FALSE	TRUE	FALSE
339	51,5	FALSE	TRUE	FALSE	FALSE