



# Delivery Report Finland

EEA-FTSP-Sealing\_CountryDeliveryReport-FI

**Issue 1.0**

**Date Issued: 13.06.2008**

**European Environment Agency**



Service Contract No. 3601/B2007.EEA.52942

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## Document Release Sheet

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Approval:	Ana Sousa, EEA	Sign _____ Date _____
Distribution:	European Environment Agency	

## Change Record

Issue/Rev	Date	Page(s)	Description of Change	Release
-	13.06.08	32	Release of issue 1	F1v0

Printed on XEROX® Business paper produced using processes conforming to ISO 14001 or EMAS Environmental Management Systems –  
Elemental 100% chlorine free bleached

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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 Finland.

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 Finland (FI)</i>
<i>Coverage [km<sup>2</sup>]: 338.145 (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</b>
<i>Projection: Transverse Mercator</i> <i>False Easting: 3500000,00</i> <i>False Northing: 0,00</i> <i>Central Meridian: 27°00'00,00"</i> <i>Latitude of Origin: 0°00'00,00"</i> <i>Scale_Factor: 1,00</i> <i>Latitude of Origin: 0°00'00,00"</i> <i>Datum: International 1924 (Hayford)</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>
<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>  <i>The attribute table contains information about WU identification and possible deviations from the standard specifications of Image2006:</i>

- *[Cntr]* Country Code;
- *[SCU]* Number of Sub-Country unit containing the Working Unit;
- *[WU\_ID]* Full name of the Working Unit;
- *[No\_acqu]* Number of acquisitions within the WU; 0 = gap / no image available;
- *[Out\_Veg]* No of acquisition dates outside of country-specific vegetation period;
- *[Below\_6w]* Acquisition dates less than 6 weeks apart;
- *[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

## 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
-	15.09.2007 15.10.2007 15.01.2008 24.02.2008 (Gapfillers)	11.01.2008	18.01.2008	25.01.2008 25.02.2008 (Gapfillers)	01.03.2008	11.06.2008

#### 3.2 TECHNICAL PROBLEMS ENCOUNTERED, MITIGATION MEASURES

The analysis of the GIS metadata file with respect to the ITT's specifications led to the following results for Finland:

- WU (2 coverages): 98 %
- Gaps filled with single coverage: 2%
- Gaps not covered by single coverage: 0%
- At least one scene in WU outside vegetation period 1<sup>st</sup> of July to 11<sup>th</sup> of August: 93 %
- Country area with acquisition dates less than 6 weeks apart: 6%
- Cloud coverage in WU: 0.03%

If clouds have been identified in the 1<sup>st</sup> coverage, a visual check was done to see whether the area is sealed. If it appeared that there was a sealed area then the 2<sup>nd</sup> coverage was used.

To enlarge the number of sample plots for the statistical QA, the vegetation period valid for the analysis was extended to April 1st until October 31st (formerly July 1st to August 11th). Thus the sample plot count increased from 0 to 390 samples.

## 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 %.

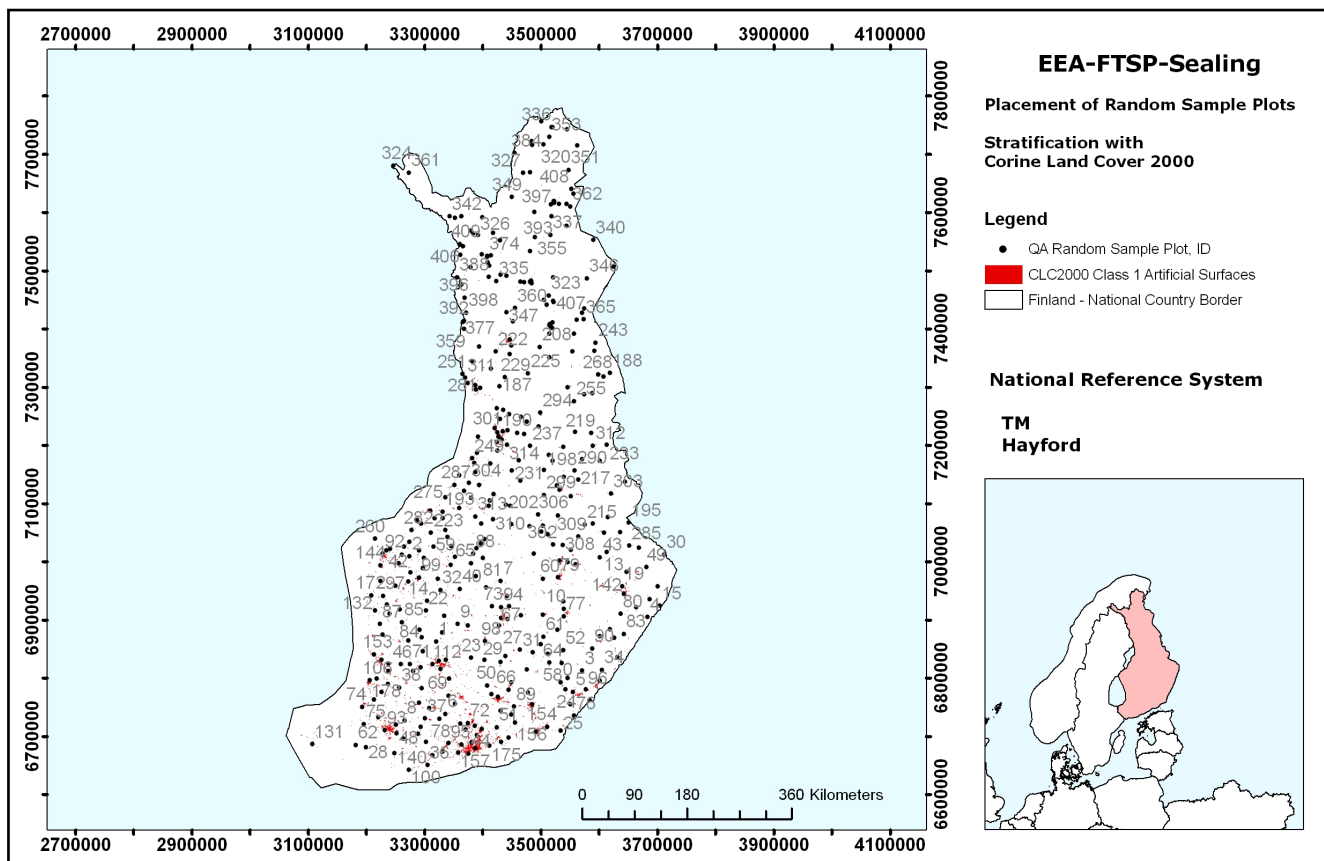
Accuracy assessment is performed per country product for internal quality control. For final acceptance by EEA, the overall accuracy of the European product is arbitative.

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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: 410 (205 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%	12	9	21	57,1%
	<80%	1	368	369	99,7%
	$\Sigma$	13	377	390	0,3%
	User's Accuracy	92,3%	97,6%		
	Commission Error	7,7%	2,4%		
	Overall Accuracy	97,4%			

## 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).
- 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.
- 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 projection

## 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.

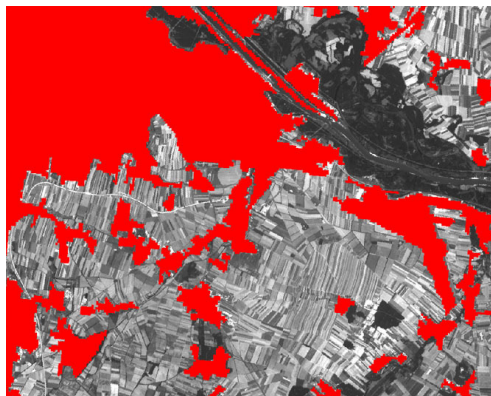
In addition, built-up pixels within all other CLC level 1 classes (which are not mapped in CLC according to the 25ha MMU) will be included according to the above definition. Fully vegetated or unvegetated non-built-up pixels will be excluded.



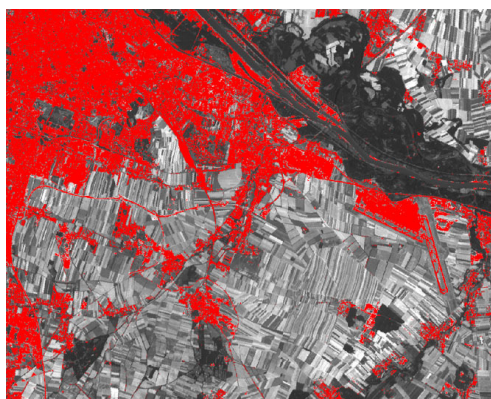
SPOT-4 satellite image over Vienna / Austria  
(green band; 20m resolution)



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 Finland**

SCU	Working Unit
1	irsp6_022016_050701_I30_irsp6_024016_060730_I30
1	irsp6_022016_050701_I30_spot4_046205_060820_2i0
1	irsp6_022016_050701_I30_spot4_046206_060820_2i0
1	irsp6_024016_060730_I30_irsp6_027017_050702_I30
1	irsp6_024016_060730_I30_spot4_053207_060915_1i0
1	irsp6_024016_060730_I30_spot4_054207_060915_2i0
1	irsp6_024016_060730_I30_spot4_054208_070929_2i0
1	irsp6_027015_050702_I30
1	irsp6_027015_050702_I30_irsp6_029015_060824_I30
1	irsp6_027016_050702_I30
1	irsp6_027016_050702_I30_spot4_057206_070929_2i1
1	irsp6_027016_050702_I30_spot4_061207_060730_1i0
1	irsp6_027017_050702_I30
1	irsp6_027017_050702_I30_spot4_054207_070929_2i0
1	irsp6_027017_050702_I30_spot4_054208_070929_2i0
1	irsp6_027017_050702_I30_spot4_054209_070929_1i0
1	irsp6_027017_050702_I30_spot4_057209_070930_2i0
1	irsp6_027017_050702_I30_spot4_058208_050919_2i0
1	irsp6_027017_050702_I30_spot4_058208_050919_2i4
1	irsp6_027017_050702_I30_spot4_058208_060809_1i0
1	irsp6_029015_050712_I30_irsp6_029016_060824_I30
1	irsp6_029016_050712_I30_irsp6_029016_060824_I30
1	irsp6_029016_050712_I30_spot4_062207_060701_2i0
1	irsp6_029017_050618_I30
1	irsp6_029017_050618_I30_irsp6_031018_060506_I30
1	irsp6_029017_050618_I30_spot4_061208_060730_2i0
1	irsp6_029017_050618_I30_spot4_061208_071005_1i0
1	irsp6_029017_050618_I30_spot4_061209_060730_1i0
1	irsp6_029017_050618_I30_spot4_061209_071005_1i0
1	irsp6_029017_050618_I30_spot4_062207_070704_2i6

SCU	Working Unit
1	irsp6_029017_050618_I30_spot4_062208_070930_1i0
1	irsp6_029017_050618_I30_spot4_062210_070930_1i1
1	irsp6_029017_050618_I30_spot4_065209_060810_2i0
1	irsp6_029018_050922_I30_irsp6_030018_060805_I30
1	irsp6_029018_050922_I30_spot4_061210_060730_2i0
1	irsp6_030018_060805_I30_spot4_062210_070930_1i1
1	irsp6_031018_060506_I30_spot4_062210_070930_1i1
1	irsp6_032017_050703_I30_spot4_066208_070929_2i1
1	irsp6_032017_050703_I30_spot4_066209_070929_2i0
1	irsp6_032017_050703_I30_spot4_069209_070929_1i3
1	spot4_062210_070930_1i1_spot4_065210_060607_1i1
1	spot4_065208_070807_1i2_spot4_066208_070929_2i1
2	irsp6_028018_060702_I30
2	irsp6_028018_060702_I30_irsp6_029018_050922_I30
2	irsp6_028018_060702_I30_spot4_058210_070927_1i0
2	irsp6_028018_060702_I30_spot5_058210_050922_2j5
2	irsp6_029018_050922_I30_irsp6_030018_060805_I30
2	irsp6_029019_060613_I30
2	irsp6_029019_060613_I30_irsp6_030019_060805_I30
2	irsp6_029019_060613_I30_irsp6_030020_060805_I30
2	irsp6_029019_060613_I30_spot4_061212_060727_1i0
2	irsp6_030018_060805_I30_irsp6_031018_060506_I30
2	irsp6_030019_060805_I30_irsp6_031019_060506_I30
2	irsp6_031018_060506_I30_irsp6_032018_050703_I30
2	irsp6_032018_050703_I30_irsp6_032018_060815_I30
2	irsp6_032019_050703_I30_irsp6_033019_060820_I30
2	spot4_054209_070929_1i0_spot5_057209_070808_1j4
3	irsp6_030019_060805_I30_irsp6_031019_060506_I30
3	irsp6_030020_060805_I30
3	irsp6_030020_060805_I30_irsp6_031020_060506_I30
3	irsp6_030020_060805_I30_irsp6_031021_060506_I30
3	irsp6_031019_060506_I30_irsp6_032019_050703_I30
3	irsp6_031020_060506_I30_irsp6_032020_050703_I30
3	irsp6_032019_050703_I30_irsp6_033019_060820_I30
3	irsp6_032019_050703_I30_spot4_070215_060717_1i0
3	irsp6_032020_050703_I30_irsp6_033020_060703_I30
3	irsp6_032021_060511_I30_irsp6_033021_060703_I30
3	irsp6_033019_060820_I30
3	irsp6_033019_060820_I30_irsp6_033020_060703_I30
3	irsp6_033019_060820_I30_irsp6_034019_050619_I30
3	irsp6_033019_060820_I30_spot4_074215_070806_1i2
3	irsp6_033019_060820_I30_spot4_074216_060701_1i0
3	irsp6_033020_060703_I30
3	irsp6_033020_060703_I30_spot4_070217_070923_2i0
3	irsp6_033020_060703_I30_spot4_073217_070923_1i1

SCU	Working Unit
3	irsp6_033020_060703_I30_spot4_074216_060925_2i0
3	irsp6_035021_060806_I30_spot4_073217_060925_2i7
3	irsp6_036020_060507_I30_spot4_073217_060701_1i0
3	irsp6_036020_060507_I30_spot4_074215_070806_1i2
3	irsp6_036020_060507_I30_spot4_074216_060701_1i0
3	irsp6_036020_060507_I30_spot4_077216_060717_2i0
3	irsp6_036021_060507_I30_spot4_073217_060701_1i0
3	spot4_073217_060701_1i0_spot4_073217_070923_1i1
3	spot4_073217_060925_2i7_spot5_074218_060728_2j0
3	spot4_074216_060701_1i0_spot4_074216_060925_2i0
4	irsp6_028021_060702_I30
4	irsp6_028021_060702_I30_irsp6_029021_050501_I30
4	irsp6_028021_060702_I30_irsp6_029022_060917_I30
4	irsp6_029021_050501_I30
4	irsp6_029021_050501_I30_irsp6_030021_060805_I30
4	irsp6_029022_060917_I30
4	irsp6_029022_060917_I30_irsp6_030022_060805_I30
4	irsp6_030020_060805_I30_irsp6_030021_060501_I30
4	irsp6_030021_060501_I30_irsp6_030021_060805_I30
4	irsp6_030021_060501_I30_irsp6_031021_060717_I30
4	irsp6_030022_060501_I30_irsp6_030022_060805_I30
4	irsp6_030022_060501_I30_irsp6_031022_060717_I30
4	irsp6_031021_060506_I30_irsp6_031021_060717_I30
4	irsp6_031021_060717_I30
4	irsp6_031022_060717_I30_irsp6_032022_060511_I30
4	irsp6_031022_060717_I30_irsp6_032023_060511_I30
4	irsp6_032021_060511_I30_irsp6_033021_060703_I30
4	irsp6_032022_060511_I30_irsp6_033022_050708_I30
4	irsp6_033022_050708_I30_irsp6_033022_060913_I30
4	irsp6_033022_060913_I30_irsp6_034022_050502_I30
5	irsp6_033021_060703_I30_irsp6_034021_070422_I30
5	irsp6_034021_060801_I30_irsp6_034021_070422_I30
5	irsp6_035022_060619_I30_irsp6_035022_060806_I30
5	irsp6_036020_060507_I30_spot4_077217_060717_2i0
5	irsp6_036020_060507_I30_spot4_077217_060801_1i5
5	irsp6_036020_060507_I30_spot4_078218_060808_1i0
5	irsp6_036021_060507_I30_irsp6_036021_060811_I30
5	irsp6_036021_060507_I30_irsp6_038021_050709_I30
5	irsp6_036021_060507_I30_irsp6_038022_050709_I30
5	irsp6_036021_060507_I30_spot4_077217_060801_1i5
5	irsp6_036021_060507_I30_spot4_078218_060808_1i0
5	irsp6_036022_060507_I30_irsp6_036022_060811_I30
5	irsp6_036022_060507_I30_irsp6_037022_070507_I30
5	irsp6_037022_070507_I30_irsp6_038022_050709_I30
5	irsp6_037022_070507_I30_spot4_081223_060810_2i0

SCU	Working Unit
5	irsp6_037023_060512_I30_irsp6_039022_070423_I30
5	irsp6_038021_050709_I30_irsp6_039021_070423_I30
5	irsp6_038021_050709_I30_spot4_081219_060815_2i8
5	irsp6_038022_050709_I30_irsp6_039021_070423_I30
5	irsp6_038022_050709_I30_spot4_081219_060815_2i8
6	
6	irsp6_030022_060501_I30_irsp6_030022_060805_I30
6	irsp6_030023_060501_I30_irsp6_030023_060805_I30
6	irsp6_030023_060501_I30_irsp6_031023_060717_I30
6	irsp6_030024_060501_I30
6	irsp6_030024_060501_I30_irsp6_030024_060805_I30
6	irsp6_030024_060501_I30_irsp6_031024_060717_I30
6	irsp6_031023_060717_I30_irsp6_032023_060511_I30
6	irsp6_031023_060717_I30_irsp6_032024_060511_I30
6	irsp6_031024_060717_I30
6	irsp6_031024_060717_I30_irsp6_032024_060511_I30
6	irsp6_032022_060511_I30_irsp6_033023_060703_I30
6	irsp6_032022_060511_I30_spot4_069222_060701_1i0
6	irsp6_032022_060511_I30_spot4_069222_070414_1i0
6	irsp6_032023_060511_I30_irsp6_033023_060703_I30
6	irsp6_032023_060511_I30_irsp6_033024_060703_I30
6	irsp6_032024_060511_I30
6	irsp6_032024_060511_I30_irsp6_033024_060703_I30
6	irsp6_033023_060703_I30_irsp6_034023_050713_I30
6	irsp6_033024_060703_I30
6	irsp6_034024_060427_I30_irsp6_034024_060708_I30
6	irsp6_034024_060427_I30_irsp6_036024_060811_I30
6	irsp6_034024_060427_I30_spot4_074227_070404_1i0
7	irsp6_034022_050502_I30_irsp6_034022_050713_I30
7	irsp6_034023_050713_I30_irsp6_034023_060708_I30
7	irsp6_034023_060427_I30_irsp6_034023_060708_I30
7	irsp6_034023_060427_I30_irsp6_036023_060811_I30
7	irsp6_034024_060427_I30_irsp6_034024_060708_I30
7	irsp6_036022_060507_I30_irsp6_036022_060811_I30
7	irsp6_036023_060507_I30_irsp6_036023_060811_I30
7	irsp6_036024_060811_I30
7	irsp6_036024_060811_I30_irsp6_037024_050704_I30
7	irsp6_036024_060811_I30_spot4_077226_060415_2i0
7	irsp6_036024_060811_I30_spot4_077226_060616_2i0
7	irsp6_037023_050704_I30_irsp6_037023_060512_I30
7	irsp6_037024_050704_I30_irsp6_037024_060512_I30
7	irsp6_039022_070423_I30_irsp6_039023_060709_I30
7	spot5_077225_060424_2j0_spot4_077225_060616_2i0

## 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	FALSE
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	FALSE
8	0,0	FALSE	FALSE	TRUE	FALSE
9	26,7	FALSE	FALSE	TRUE	FALSE
10	0,0	FALSE	FALSE	TRUE	FALSE
11	0,0	FALSE	FALSE	TRUE	FALSE
12	0,0	FALSE	FALSE	TRUE	FALSE
13	0,0	FALSE	FALSE	TRUE	FALSE
14	0,1	FALSE	FALSE	TRUE	FALSE
15	0,0	FALSE	FALSE	TRUE	FALSE
16	0,0	FALSE	FALSE	TRUE	FALSE
17	0,0	FALSE	FALSE	TRUE	FALSE
18	0,0	FALSE	FALSE	TRUE	FALSE
19	0,0	FALSE	FALSE	TRUE	FALSE
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	FALSE
24	0,0	FALSE	FALSE	TRUE	FALSE
25	0,0	FALSE	FALSE	TRUE	FALSE
26	0,0	FALSE	FALSE	TRUE	FALSE
27	0,0	FALSE	FALSE	TRUE	FALSE
28	0,0	FALSE	FALSE	TRUE	FALSE
29	0,0	FALSE	FALSE	TRUE	FALSE
30	0,0	FALSE	FALSE	TRUE	FALSE
31	0,0	FALSE	FALSE	TRUE	FALSE
32	0,0	FALSE	FALSE	TRUE	FALSE
33	0,0	FALSE	FALSE	TRUE	FALSE
34	0,0	FALSE	FALSE	TRUE	FALSE
35	0,0	FALSE	FALSE	TRUE	FALSE
36	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]
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	0,0	FALSE	FALSE	TRUE	FALSE
50	0,0	FALSE	FALSE	TRUE	FALSE
51	0,0	FALSE	FALSE	TRUE	FALSE
52	0,0	FALSE	FALSE	TRUE	FALSE
53	1,9	FALSE	FALSE	TRUE	FALSE
54	0,0	FALSE	FALSE	TRUE	FALSE
55	0,0	FALSE	FALSE	TRUE	FALSE
56	0,0	FALSE	FALSE	TRUE	FALSE
57	0,0	FALSE	FALSE	TRUE	FALSE
58	0,0	FALSE	FALSE	TRUE	FALSE
59	0,0	FALSE	FALSE	TRUE	FALSE
60	0,0	FALSE	FALSE	TRUE	FALSE
61	0,0	FALSE	FALSE	TRUE	FALSE
62	0,0	FALSE	FALSE	TRUE	FALSE
63	0,0	FALSE	FALSE	TRUE	FALSE
64	0,0	FALSE	FALSE	TRUE	FALSE
65	0,0	FALSE	FALSE	TRUE	FALSE
66	0,0	FALSE	FALSE	TRUE	FALSE
67	0,0	FALSE	FALSE	TRUE	FALSE
68	0,0	FALSE	FALSE	TRUE	FALSE
69	0,0	FALSE	FALSE	TRUE	FALSE
70	0,0	FALSE	FALSE	TRUE	FALSE
71	0,0	FALSE	FALSE	TRUE	FALSE
72	0,0	FALSE	FALSE	TRUE	FALSE
73	0,0	FALSE	FALSE	TRUE	FALSE
74	0,0	FALSE	FALSE	TRUE	FALSE
75	23,5	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]
76	0,0	FALSE	FALSE	TRUE	FALSE
77	0,0	FALSE	FALSE	TRUE	FALSE
78	0,0	FALSE	FALSE	TRUE	FALSE
79	0,0	FALSE	FALSE	TRUE	FALSE
80	0,0	FALSE	FALSE	TRUE	FALSE
81	0,0	FALSE	FALSE	TRUE	FALSE
82	0,0	FALSE	FALSE	TRUE	FALSE
83	0,0	FALSE	FALSE	TRUE	FALSE
84	0,0	FALSE	FALSE	TRUE	FALSE
85	0,0	FALSE	FALSE	TRUE	FALSE
86	0,0	FALSE	FALSE	TRUE	FALSE
87	0,0	FALSE	FALSE	TRUE	FALSE
88	0,0	FALSE	FALSE	TRUE	FALSE
89	0,0	FALSE	FALSE	TRUE	FALSE
90	0,0	FALSE	FALSE	TRUE	FALSE
91	0,0	FALSE	FALSE	TRUE	FALSE
92	65,3	FALSE	FALSE	TRUE	FALSE
93	1,1	FALSE	FALSE	TRUE	FALSE
94	63,5	FALSE	FALSE	TRUE	FALSE
95	0,0	FALSE	FALSE	TRUE	FALSE
96	0,0	FALSE	FALSE	TRUE	FALSE
97	98,7	TRUE	TRUE	TRUE	FALSE
98	58,2	FALSE	FALSE	TRUE	FALSE
99	0,0	FALSE	FALSE	TRUE	FALSE
100	14,9	FALSE	FALSE	TRUE	FALSE
101	64,6	FALSE	TRUE	FALSE	FALSE
102	43,5	FALSE	FALSE	TRUE	FALSE
103	3,9	FALSE	FALSE	TRUE	FALSE
104	2,7	FALSE	FALSE	TRUE	FALSE
105	0,0	FALSE	FALSE	TRUE	FALSE
106	0,0	FALSE	FALSE	TRUE	FALSE
107	0,0	FALSE	FALSE	TRUE	FALSE
108	8,4	FALSE	FALSE	TRUE	FALSE
109	82,6	TRUE	TRUE	TRUE	FALSE
110	0,0	FALSE	FALSE	TRUE	TRUE
111	0,4	FALSE	FALSE	TRUE	FALSE
112	100,0	TRUE	TRUE	TRUE	FALSE
113	0,0	FALSE	FALSE	TRUE	FALSE
114	12,2	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	0,1	FALSE	FALSE	TRUE	FALSE
116	0,0	FALSE	FALSE	TRUE	FALSE
117	21,8	FALSE	FALSE	TRUE	FALSE
118	46,7	FALSE	FALSE	TRUE	FALSE
119	9,7	FALSE	FALSE	TRUE	FALSE
120	0,0	FALSE	FALSE	TRUE	FALSE
121	1,4	FALSE	FALSE	TRUE	FALSE
122	2,7	FALSE	FALSE	TRUE	FALSE
123	80,6	TRUE	TRUE	TRUE	FALSE
124	2,7	FALSE	FALSE	TRUE	FALSE
125	18,6	FALSE	FALSE	TRUE	FALSE
126	8,8	FALSE	FALSE	TRUE	FALSE
127	27,9	FALSE	FALSE	TRUE	FALSE
128	40,1	FALSE	FALSE	TRUE	FALSE
129	14,3	FALSE	FALSE	TRUE	FALSE
130	7,5	FALSE	FALSE	TRUE	FALSE
131	41,6	FALSE	TRUE	FALSE	FALSE
132	5,6	FALSE	FALSE	TRUE	FALSE
133	19,0	FALSE	TRUE	FALSE	FALSE
134	0,5	FALSE	FALSE	TRUE	FALSE
135	26,3	FALSE	FALSE	TRUE	FALSE
136	47,7	FALSE	FALSE	TRUE	FALSE
137	7,2	FALSE	FALSE	TRUE	FALSE
138	4,2	FALSE	FALSE	TRUE	FALSE
139	6,6	FALSE	FALSE	TRUE	FALSE
140	0,5	FALSE	FALSE	TRUE	FALSE
141	28,8	FALSE	FALSE	TRUE	FALSE
142	0,0	FALSE	FALSE	TRUE	FALSE
143	7,2	FALSE	FALSE	TRUE	FALSE
144	46,8	FALSE	FALSE	TRUE	FALSE
145	2,9	FALSE	FALSE	TRUE	FALSE
146	1,6	FALSE	FALSE	TRUE	FALSE
147	6,1	FALSE	FALSE	TRUE	FALSE
148	37,6	FALSE	FALSE	TRUE	FALSE
149	4,3	FALSE	FALSE	TRUE	FALSE
150	18,3	FALSE	FALSE	TRUE	FALSE
151	27,6	FALSE	FALSE	TRUE	FALSE
152	8,9	FALSE	TRUE	FALSE	FALSE
153	12,1	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]
154	0,0	FALSE	FALSE	TRUE	FALSE
155	0,3	FALSE	FALSE	TRUE	FALSE
156	11,1	FALSE	FALSE	TRUE	FALSE
157	7,7	FALSE	FALSE	TRUE	FALSE
158	15,5	FALSE	FALSE	TRUE	FALSE
159	0,2	FALSE	FALSE	TRUE	FALSE
160	43,0	FALSE	FALSE	TRUE	FALSE
161	28,3	FALSE	FALSE	TRUE	FALSE
162	25,1	FALSE	FALSE	TRUE	FALSE
163	3,3	FALSE	FALSE	TRUE	FALSE
164	0,4	FALSE	FALSE	TRUE	FALSE
165	0,0	FALSE	FALSE	TRUE	FALSE
166	1,7	FALSE	FALSE	TRUE	FALSE
167	75,8	FALSE	TRUE	FALSE	FALSE
168	17,1	FALSE	FALSE	TRUE	FALSE
169	12,1	FALSE	FALSE	TRUE	FALSE
170	29,9	FALSE	FALSE	TRUE	FALSE
171	58,8	FALSE	FALSE	TRUE	FALSE
172	54,9	FALSE	FALSE	TRUE	FALSE
173	6,7	FALSE	FALSE	TRUE	FALSE
174	8,4	FALSE	FALSE	TRUE	FALSE
175	0,0	FALSE	FALSE	TRUE	FALSE
176	0,0	FALSE	FALSE	TRUE	FALSE
177	0,0	FALSE	FALSE	TRUE	FALSE
178	2,0	FALSE	FALSE	TRUE	FALSE
179	9,6	FALSE	FALSE	TRUE	FALSE
180	0,0	FALSE	FALSE	TRUE	FALSE
181	21,4	FALSE	FALSE	TRUE	FALSE
182	0,0	FALSE	FALSE	TRUE	TRUE
183	0,0	FALSE	FALSE	TRUE	FALSE
184	0,0	FALSE	FALSE	TRUE	FALSE
185	0,0	FALSE	FALSE	TRUE	FALSE
186	0,0	FALSE	FALSE	TRUE	FALSE
187	0,0	FALSE	FALSE	TRUE	FALSE
188	0,0	FALSE	FALSE	TRUE	FALSE
189	0,0	FALSE	FALSE	TRUE	FALSE
190	0,0	FALSE	FALSE	TRUE	FALSE
191	0,0	FALSE	FALSE	TRUE	FALSE
192	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]
193	0,0	FALSE	FALSE	TRUE	FALSE
194	0,0	FALSE	FALSE	TRUE	FALSE
195	0,0	FALSE	FALSE	TRUE	FALSE
196	0,0	FALSE	FALSE	TRUE	FALSE
197	0,0	FALSE	FALSE	TRUE	TRUE
198	0,0	FALSE	FALSE	TRUE	TRUE
199	0,9	FALSE	FALSE	TRUE	TRUE
200	0,0	FALSE	FALSE	TRUE	FALSE
201	0,0	FALSE	FALSE	TRUE	FALSE
202	2,6	FALSE	FALSE	TRUE	FALSE
203	0,0	FALSE	FALSE	TRUE	FALSE
204	0,0	FALSE	FALSE	TRUE	FALSE
205	0,0	FALSE	FALSE	TRUE	TRUE
206	0,0	FALSE	FALSE	TRUE	FALSE
207	0,0	FALSE	FALSE	TRUE	FALSE
208	0,0	FALSE	FALSE	TRUE	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	FALSE
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	FALSE
219	0,0	FALSE	FALSE	TRUE	FALSE
220	0,0	FALSE	FALSE	TRUE	FALSE
221	0,0	FALSE	FALSE	TRUE	FALSE
222	0,0	FALSE	FALSE	TRUE	FALSE
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	FALSE
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	0,0	FALSE	FALSE	TRUE	FALSE
241	0,0	FALSE	FALSE	TRUE	FALSE
242	0,0	FALSE	FALSE	TRUE	FALSE
243	0,0	FALSE	FALSE	TRUE	FALSE
244	0,0	FALSE	FALSE	TRUE	FALSE
245	0,0	FALSE	FALSE	TRUE	FALSE
246	0,0	FALSE	FALSE	TRUE	FALSE
247	0,0	FALSE	FALSE	TRUE	FALSE
248	0,0	FALSE	FALSE	TRUE	FALSE
249	0,0	FALSE	FALSE	TRUE	FALSE
250	39,1	FALSE	FALSE	TRUE	FALSE
251	0,0	FALSE	FALSE	TRUE	FALSE
252	0,0	FALSE	FALSE	TRUE	FALSE
253	44,8	FALSE	FALSE	TRUE	FALSE
254	73,2	FALSE	TRUE	FALSE	FALSE
255	0,0	FALSE	FALSE	TRUE	FALSE
256	9,7	FALSE	FALSE	TRUE	FALSE
257	6,1	FALSE	FALSE	TRUE	FALSE
258	2,4	FALSE	FALSE	TRUE	FALSE
259	16,3	FALSE	FALSE	TRUE	FALSE
260	18,2	FALSE	FALSE	TRUE	FALSE
261	0,0	FALSE	FALSE	TRUE	FALSE
262	7,7	FALSE	FALSE	TRUE	FALSE
263	26,6	FALSE	FALSE	TRUE	FALSE
264	0,0	FALSE	FALSE	TRUE	FALSE
265	94,4	TRUE	TRUE	TRUE	FALSE
266	0,0	FALSE	FALSE	TRUE	FALSE
267	33,8	FALSE	FALSE	TRUE	FALSE
268	0,0	FALSE	FALSE	TRUE	FALSE
269	85,4	TRUE	TRUE	TRUE	FALSE
270	0,9	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	50,3	FALSE	TRUE	FALSE	FALSE
272	0,0	FALSE	FALSE	TRUE	FALSE
273	0,0	FALSE	FALSE	TRUE	FALSE
274	2,0	FALSE	FALSE	TRUE	FALSE
275	0,0	FALSE	FALSE	TRUE	FALSE
276	8,8	FALSE	FALSE	FALSE	TRUE
277	0,8	FALSE	FALSE	TRUE	FALSE
278	6,0	FALSE	FALSE	TRUE	FALSE
279	0,0	FALSE	FALSE	TRUE	FALSE
280	81,0	TRUE	TRUE	TRUE	FALSE
281	100,0	TRUE	TRUE	TRUE	FALSE
282	26,2	FALSE	FALSE	TRUE	FALSE
283	12,4	FALSE	FALSE	TRUE	FALSE
284	21,7	FALSE	FALSE	TRUE	FALSE
285	1,4	FALSE	FALSE	TRUE	FALSE
286	72,9	FALSE	FALSE	TRUE	FALSE
287	65,9	FALSE	FALSE	TRUE	FALSE
288	2,9	FALSE	FALSE	TRUE	FALSE
289	0,0	FALSE	FALSE	TRUE	FALSE
290	1,2	FALSE	FALSE	TRUE	FALSE
291	24,3	FALSE	FALSE	TRUE	FALSE
292	2,7	FALSE	FALSE	TRUE	FALSE
293	0,0	FALSE	FALSE	TRUE	FALSE
294	0,0	FALSE	FALSE	TRUE	FALSE
295	0,0	FALSE	FALSE	TRUE	FALSE
296	6,4	FALSE	FALSE	TRUE	FALSE
297	0,0	FALSE	FALSE	TRUE	FALSE
298	0,0	FALSE	FALSE	TRUE	FALSE
299	75,6	FALSE	FALSE	TRUE	FALSE
300	17,7	FALSE	FALSE	TRUE	FALSE
301	100,0	TRUE	TRUE	TRUE	FALSE
302	0,0	FALSE	FALSE	TRUE	FALSE
303	58,3	FALSE	TRUE	FALSE	FALSE
304	0,0	FALSE	FALSE	TRUE	FALSE
305	9,6	FALSE	FALSE	TRUE	FALSE
306	100,0	TRUE	FALSE	FALSE	FALSE
307	18,0	FALSE	FALSE	TRUE	FALSE
308	13,7	FALSE	FALSE	TRUE	FALSE
309	3,7	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	10,9	FALSE	FALSE	TRUE	FALSE
311	0,7	FALSE	FALSE	TRUE	FALSE
312	7,4	FALSE	FALSE	TRUE	FALSE
313	13,0	FALSE	FALSE	TRUE	FALSE
314	34,7	FALSE	FALSE	TRUE	FALSE
315	0,0	FALSE	FALSE	TRUE	FALSE
316	0,0	FALSE	FALSE	TRUE	FALSE
317	0,0	FALSE	FALSE	TRUE	FALSE
318	0,0	FALSE	FALSE	TRUE	FALSE
319	0,0	FALSE	FALSE	TRUE	TRUE
320	0,0	FALSE	FALSE	TRUE	FALSE
321	0,0	FALSE	FALSE	TRUE	FALSE
322	0,0	FALSE	FALSE	TRUE	FALSE
323	0,0	FALSE	FALSE	TRUE	FALSE
324	0,0	FALSE	FALSE	TRUE	FALSE
325	0,0	FALSE	FALSE	TRUE	FALSE
326	0,0	FALSE	FALSE	TRUE	FALSE
327	0,0	FALSE	FALSE	TRUE	TRUE
328	0,0	FALSE	FALSE	TRUE	FALSE
329	0,0	FALSE	FALSE	TRUE	FALSE
330	0,0	FALSE	FALSE	FALSE	TRUE
331	0,0	FALSE	FALSE	TRUE	FALSE
332	0,0	FALSE	FALSE	TRUE	FALSE
333	0,0	FALSE	FALSE	TRUE	TRUE
334	0,0	FALSE	FALSE	TRUE	FALSE
335	0,0	FALSE	FALSE	TRUE	FALSE
336	0,0	FALSE	FALSE	TRUE	FALSE
337	0,0	FALSE	FALSE	TRUE	FALSE
338	0,0	FALSE	FALSE	TRUE	FALSE
339	0,0	FALSE	FALSE	TRUE	FALSE
340	0,0	FALSE	FALSE	TRUE	FALSE
341	0,0	FALSE	FALSE	TRUE	TRUE
342	0,0	FALSE	FALSE	TRUE	FALSE
343	0,0	FALSE	FALSE	TRUE	FALSE
344	0,0	FALSE	FALSE	TRUE	FALSE
345	0,0	FALSE	FALSE	TRUE	FALSE
346	0,0	FALSE	FALSE	TRUE	FALSE
347	0,0	FALSE	FALSE	TRUE	FALSE
348	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]
349	0,0	FALSE	FALSE	FALSE	TRUE
350	0,0	FALSE	FALSE	TRUE	FALSE
351	0,0	FALSE	FALSE	TRUE	FALSE
352	0,0	FALSE	FALSE	TRUE	FALSE
353	0,0	FALSE	FALSE	TRUE	FALSE
354	0,0	FALSE	FALSE	TRUE	FALSE
355	0,0	FALSE	FALSE	TRUE	FALSE
356	0,0	FALSE	FALSE	TRUE	FALSE
357	0,0	FALSE	FALSE	TRUE	FALSE
358	0,0	FALSE	FALSE	TRUE	FALSE
359	0,0	FALSE	FALSE	TRUE	FALSE
360	0,0	FALSE	FALSE	TRUE	FALSE
361	0,0	FALSE	FALSE	TRUE	TRUE
362	0,0	FALSE	FALSE	TRUE	FALSE
363	0,0	FALSE	FALSE	TRUE	FALSE
364	13,6	FALSE	FALSE	TRUE	FALSE
365	12,0	FALSE	FALSE	TRUE	FALSE
366	0,0	FALSE	FALSE	TRUE	FALSE
367	16,1	FALSE	FALSE	TRUE	FALSE
368	11,1	FALSE	FALSE	TRUE	FALSE
369	13,5	FALSE	FALSE	TRUE	FALSE
370	0,0	FALSE	FALSE	TRUE	FALSE
371	0,0	FALSE	FALSE	TRUE	FALSE
372	16,0	FALSE	FALSE	TRUE	FALSE
373	16,0	FALSE	FALSE	TRUE	FALSE
374	23,2	FALSE	FALSE	TRUE	FALSE
375	25,0	FALSE	FALSE	TRUE	FALSE
376	7,3	FALSE	FALSE	TRUE	TRUE
377	13,5	FALSE	FALSE	TRUE	FALSE
378	0,0	FALSE	FALSE	TRUE	FALSE
379	99,6	TRUE	TRUE	TRUE	FALSE
380	2,5	FALSE	FALSE	TRUE	TRUE
381	0,0	FALSE	FALSE	TRUE	FALSE
382	0,0	FALSE	FALSE	TRUE	FALSE
383	0,0	FALSE	FALSE	TRUE	FALSE
384	3,6	FALSE	FALSE	FALSE	TRUE
385	0,0	FALSE	FALSE	TRUE	TRUE
386	0,0	FALSE	FALSE	TRUE	FALSE
387	0,6	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]
388	97,1	TRUE	TRUE	TRUE	FALSE
389	0,0	FALSE	FALSE	TRUE	FALSE
390	0,0	FALSE	FALSE	TRUE	FALSE
391	7,0	FALSE	FALSE	TRUE	FALSE
392	57,5	FALSE	TRUE	FALSE	FALSE
393	0,0	FALSE	FALSE	TRUE	FALSE
394	0,0	FALSE	FALSE	FALSE	TRUE
395	0,6	FALSE	FALSE	TRUE	FALSE
396	0,0	FALSE	FALSE	TRUE	FALSE
397	0,0	FALSE	FALSE	TRUE	FALSE
398	95,1	TRUE	TRUE	TRUE	FALSE
399	0,8	FALSE	FALSE	TRUE	FALSE
400	0,0	FALSE	FALSE	TRUE	FALSE
401	0,0	FALSE	FALSE	TRUE	FALSE
402	0,1	FALSE	FALSE	TRUE	FALSE
403	15,1	FALSE	FALSE	TRUE	FALSE
404	0,0	FALSE	FALSE	TRUE	FALSE
405	0,0	FALSE	FALSE	TRUE	FALSE
406	6,1	FALSE	FALSE	TRUE	FALSE
407	0,0	FALSE	FALSE	TRUE	FALSE
408	0,0	FALSE	FALSE	TRUE	FALSE
409	0,0	FALSE	FALSE	TRUE	FALSE