



Delivery Report Sweden

EEA-FTSP-Sealing_CountryDeliveryReport-SE

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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 Sweden.

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

Content
<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>
Geographic coverage
<i>Country of Sweden (SE)</i>
<i>Coverage [km²]: 449.964 (plus additional buffer of 200 meters outside of country border)</i>
Input data sources
<p><u>Input data provided by ESA:</u></p> <ul style="list-style-type: none"> ▪ <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"> • <i>20 m resampled (with cubic convolution interpolation)</i> • <i>4 spectral bands</i> • <i>Max. 5% cloud coverage</i> • <i>Covering 2 dates, at least 6 weeks apart from the respect. scene selected for the first coverage</i> • <i>Orthorectified towards national projection systems (used DTM unknown)</i> • <i>Delivery on a country by country basis foreseen</i> • <i>Metadata to each scene</i> <p><u>Input data provided by EEA</u></p> <ul style="list-style-type: none"> ▪ <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> <p><u>Ancillary input data</u></p> <ul style="list-style-type: none"> ▪ <i>National Corine Land Cover 2000 data in vector format to be used for the stratification of the QA sample plots</i>
Methodology
<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>
Geometric resolution
<i>Pixel resolution 20 x 20 m</i>

Coordinate Reference System
<i>Projection: Transverse Mercator</i> <i>False Easting: 1500000,000</i> <i>False Northing: 0,000</i> <i>Central Meridian: 15°48'29,80"</i> <i>Latitude of Origin: 0°00'00,00"</i> <i>Scale_Factor: 1,0000</i> <i>Latitude of Origin: 0°00'00,00"</i> <i>Datum: RT 90 Schweden (Bessel 1841)</i>
Geometric accuracy (positioning scale)
<i>According to orthorectified satellite image base delivered by ESA</i>
Thematic accuracy (in %)
<i>Classification accuracy per hectare (based on 100 x 100 m grid) of built-up non built-up areas is > 85% (assessed according approach as described in chapter 4.1)</i>
Accuracy assessment approach
<i>Accuracy assessment based on random sample plots</i>
Delivery format
<i>IMAGINE Image (IMG)</i>
Data type
<i>Raster</i>
Raster coding
<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>
Metadata
<i>According to EEA metadata standards (EEA MSGI specification)</i>
Ancillary Data – Mitigation shape file
<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

Delivery format
<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>
Data type
<i>Thematic Raster</i>
Metadata
<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
-	08.10.2007 15.01.2008 (Gapfillers)	08.10.2007	31.10.2007	31.10.2007	06.11.2007	24.04.2008

3.2 TECHNICAL PROBLEMS ENCOUNTERED, MITIGATION MEASURES

The analysis of the GIS metadata file to the ITT's specifications yielded the following results for Sweden.

- WU (2 coverages): 91 %
- Gaps filled with single coverage: 9%
- Gaps not covered by single coverage: 1%
- Country area outside of vegetation period 25th of May to 15th of September: 71 %
- Country area with acquisition dates less than 6 weeks apart: None

If it was clouds in the 1st coverage a visual check was done to see if the area were sealed. If it appeared that there was a sealed area then the 2nd coverage was used in a monotemporal approach.

Clouds in single coverages outside WU: 0.008%

Some WU's have coverages from early April and May when the trees are still leafless; this could cause some problems in the production.

The country mosaic of the soil sealing layer for Sweden is delivered in two tiles (EEA-FTSP-Sealing_SE1_F1v0.img, EEA-FTSP-Sealing_SE2_F1v0.img). This is due to a file size restriction for the ERDAS compression algorithm (Run-length encoding, this goes for raster files which exceed an uncompressed file size of 2 GB).

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 km²
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 Earth¹)
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

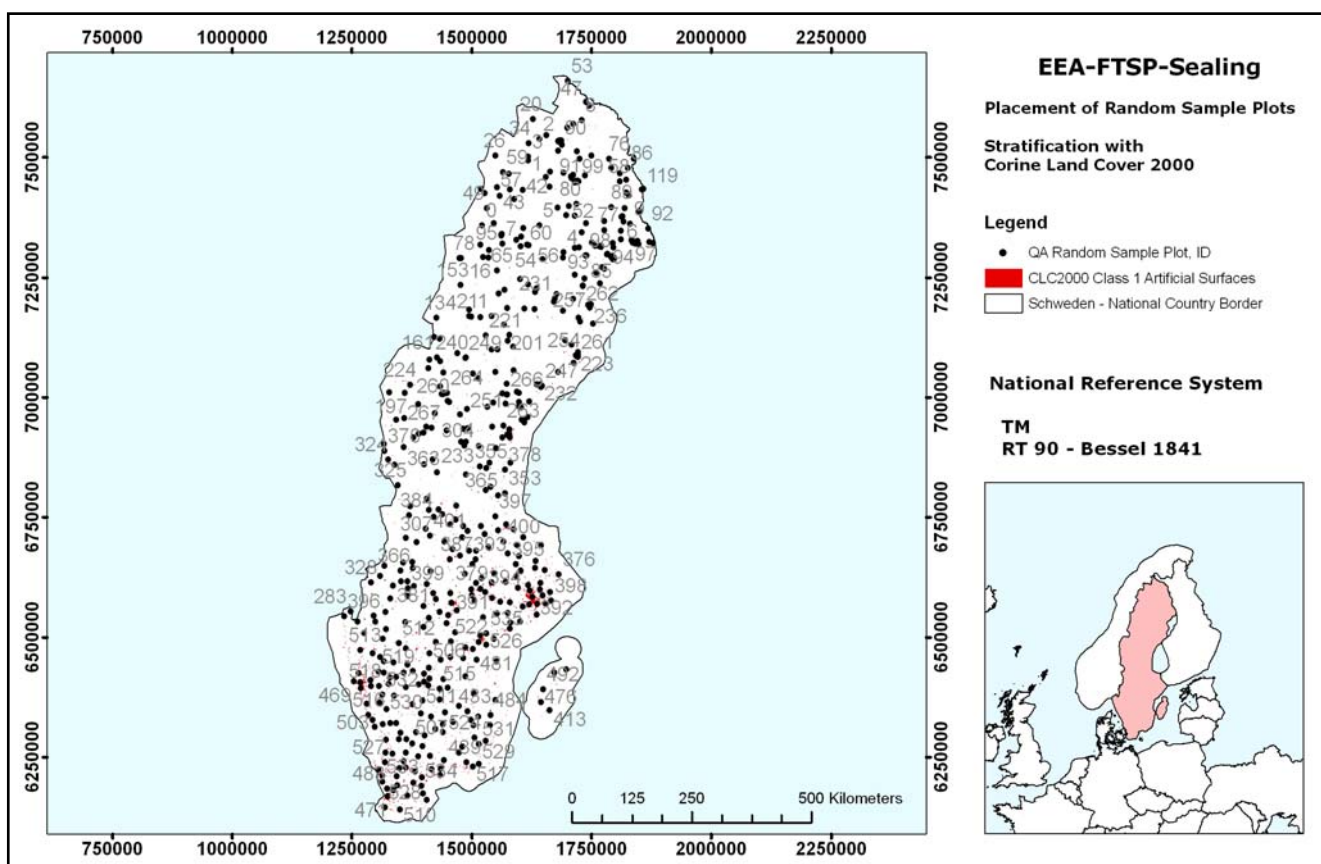
The built-up raster product which is subject to the accuracy assessment is accepted as according to the specifications if the final statistics indicate an overall accuracy of more than 85 %.

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.

¹ using web-based information input to a local server

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

Overall number of sample plots 536 (268 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				Producers Accuracy	Omission Error
Validation		>80%	<80%	Σ	
	>80%	20	14	34	58,8%
	<80%	3	396	399	99,2%
	Σ	23	410	433	
	User's Accuracy	87,0%	96,6%		
	Commission Error	13,0%	3,4%		
	Overall Accuracy	96,1%			

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 is delivered in two separated tiles to reduce the file size (see 3.2)
- 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)

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.

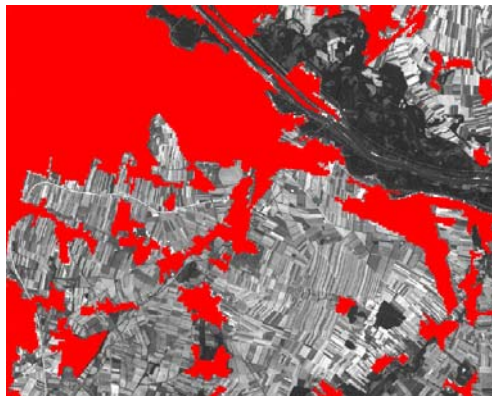
CLC level 1 class 'artificial surfaces' contains artificial surfaces and functionally related vegetated areas, reflecting the land use aspect. Therefore a significant part of this CLC level 1 class contains vegetated areas composed of fully vegetated pixels. However, in the FTSP product only pixels that 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.

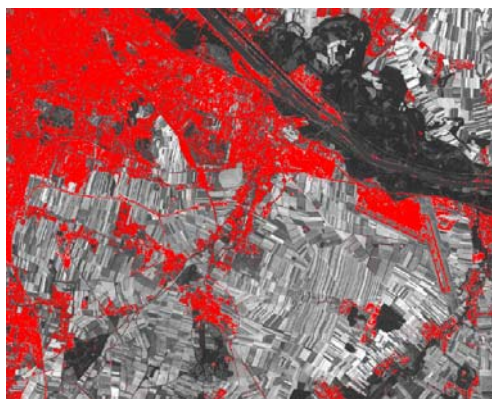
SPOT-4 satellite image over Vienna / Austria
(green band; 20m resolution)



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 Schweden

SCU	Working Unit
1	irsp6_030026_050412_I30_irsp6_030026_060712_I30
1	irsp6_030026_060712_I30
1	irsp6_030027_050412_I30_irsp6_030027_060712_I30
2	irsp6_024027_051015_I30_irsp6_024027_060612_I30
2	irsp6_026027_060505_I30_spot4_054234_060716_2i0
2	irsp6_026027_060505_I30_spot4_054235_060716_2i0
2	irsp6_026027_060505_I30_spot4_057235_050902_2i0
2	irsp6_026027_060505_I30_spot5_054234_060705_2j1
2	irsp6_026027_060505_I30_spot5_054235_060720_2j0
2	irsp6_026027_060505_I30_spot5_057234_060914_2j0
2	irsp6_026028_060505_I30
2	irsp6_026028_060505_I30_spot4_054235_060716_2i0
2	irsp6_026028_060505_I30_spot4_054236_060716_2i0
2	irsp6_026028_060505_I30_spot4_054237_060716_2i0
2	irsp6_026028_060505_I30_spot5_054235_060720_2j0
2	irsp6_026028_060505_I30_spot5_054236_060720_2j0
2	irsp6_027027_060510_I30_irsp6_028027_050402_I30
2	irsp6_027027_060510_I30_irsp6_028027_060702_I30
2	irsp6_027027_060510_I30_spot5_058235_050831_2j0
2	irsp6_027028_060510_I30
2	irsp6_027028_060510_I30_irsp6_028027_060702_I30
2	irsp6_027028_060510_I30_spot4_057236_050903_1i0
2	irsp6_027028_060510_I30_spot4_058237_060706_1i0
2	irsp6_027028_060510_I30_spot5_057237_050901_1j0
2	irsp6_028026_060702_I30_irsp6_028027_050402_I30
2	irsp6_028027_050402_I30_irsp6_028027_060702_I30
3	irsp6_023026_050401_I30_irsp6_024026_051015_I30
3	irsp6_023026_050401_I30_spot4_046230_060705_2i0
3	irsp6_023026_050401_I30_spot5_049231_060612_2j0
3	irsp6_023026_050401_I30_spot5_050232_060703_2j0
3	irsp6_024026_051015_I30_irsp6_024026_060612_I30

SCU	Working Unit
3	irsp6_026026_060505_I30_irsp6_027026_050608_I30
3	irsp6_026026_060505_I30_spot4_054231_060716_2i0
3	irsp6_026026_060505_I30_spot4_054232_060716_2i0
3	irsp6_026026_060505_I30_spot4_054233_050906_2i0
3	irsp6_026026_060505_I30_spot5_057233_060705_1j2
3	irsp6_026027_060505_I30_spot4_054233_050906_2i0
3	irsp6_027025_060510_I30_irsp6_028025_050426_I30
3	irsp6_027025_060510_I30_irsp6_028026_050402_I30
3	irsp6_027026_050608_I30_irsp6_027026_060510_I30
3	irsp6_027026_060510_I30_irsp6_028026_050402_I30
3	irsp6_027027_060510_I30_spot5_057233_060705_1j2
3	irsp6_028025_050426_I30
3	irsp6_028026_050402_I30
3	irsp6_028026_050402_I30_irsp6_028026_060702_I30
3	spot4_046230_060705_2i0
4	irsp6_021024_060715_I30_irsp6_023025_050401_I30
4	irsp6_021024_060715_I30_spot4_046227_060915_1i0
4	irsp6_021024_060715_I30_spot4_046228_060911_1i0
4	irsp6_023025_050401_I30_spot4_046228_060911_1i0
4	irsp6_023025_050401_I30_spot4_046229_060719_1i1
4	irsp6_023025_050401_I30_spot4_046230_060705_2i0
4	irsp6_023025_050401_I30_spot4_049230_060715_1i0
4	irsp6_023025_050401_I30_spot5_049228_060909_2j0
4	irsp6_023025_050401_I30_spot5_049229_060909_2j0
4	irsp6_024024_050406_I30_irsp6_025024_050902_I30
4	irsp6_024024_050406_I30_spot5_049227_060718_1j0
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4	irsp6_024024_050406_I30_spot5_050228_060719_2j0
4	irsp6_024025_050406_I30_irsp6_024025_060612_I30
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4	irsp6_025024_050505_I30_irsp6_025024_050902_I30
4	irsp6_025024_050902_I30_irsp6_026025_060505_I30
4	irsp6_026025_060505_I30_irsp6_027025_050819_I30
4	irsp6_026025_060505_I30_spot4_054229_060716_2i0
4	irsp6_026025_060505_I30_spot4_054230_060716_2i0
4	irsp6_026026_060505_I30_spot4_054230_060716_2i0
4	irsp6_027023_050819_I30_irsp6_027024_060510_I30
4	irsp6_027023_050819_I30_irsp6_028024_050426_I30
4	irsp6_027023_050819_I30_irsp6_028024_060912_I30
4	irsp6_027024_050819_I30_irsp6_027024_060510_I30
4	irsp6_027024_060510_I30_irsp6_028024_050426_I30
4	irsp6_027025_050819_I30_irsp6_027025_060510_I30
4	irsp6_028024_050426_I30_irsp6_028024_060912_I30
4	irsp6_028024_060912_I30

SCU	Working Unit
4	irsp6_028025_050426_I30_irsp6_028025_060912_I30
4	irsp6_028025_060912_I30
4	spot4_046227_060915_1i0
4	spot4_046227_060915_1i0_spot5_049227_060718_1j0
4	spot5_049228_060909_2j0
5	irsp6_021023_060715_I30_spot4_046225_060916_1i5
5	irsp6_021023_060715_I30_spot4_046226_060916_1i0
5	irsp6_021023_060715_I30_spot5_046225_050909_1j0
5	irsp6_023023_070602_I30_irsp6_024023_050828_I30
5	irsp6_023023_070602_I30_spot4_049224_050831_2i0
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5	irsp6_023023_070602_I30_spot5_050225_060719_2j0
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5	irsp6_024023_050828_I30_irsp6_025023_050505_I30
5	irsp6_024023_050828_I30_spot5_053225_060719_1j0
5	irsp6_024024_050406_I30_spot5_049225_050909_2j0
5	irsp6_024024_050406_I30_spot5_049226_060718_1j0
5	irsp6_024024_050406_I30_spot5_050226_060719_2j0
5	irsp6_025022_050505_I30_irsp6_027023_050819_I30
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5	irsp6_025023_050505_I30_irsp6_027023_050819_I30
5	irsp6_025023_050505_I30_spot4_054223_060716_2i0
5	irsp6_025023_050505_I30_spot4_054224_060716_2i0
5	irsp6_025023_050505_I30_spot4_054225_060716_2i0
5	irsp6_025023_050505_I30_spot5_053223_060804_2j0
5	irsp6_025024_050505_I30_irsp6_027024_050819_I30
5	irsp6_025024_050505_I30_spot4_054226_060716_2i0
5	irsp6_025024_050505_I30_spot4_054227_060716_2i0
5	irsp6_025024_050505_I30_spot5_053226_060719_1j0
5	spot4_045222_060916_2i9_spot5_045222_060611_2j0
5	spot4_045222_060916_2i9_spot5_045223_060611_2j0
5	spot4_045222_060916_2i9_spot5_046223_060804_1j0
5	spot4_045222_060916_2i9_spot5_046224_060804_1j0
5	spot4_046225_060916_1i5_spot5_046225_050909_1j0
5	spot4_046225_060916_1i5_spot5_049225_050909_2j0

SCU	Working Unit
5	spot4_046225_060916_1i5_spot5_049226_060718_1j0
5	spot4_046226_060916_1i0_spot5_049226_060718_1j0
5	spot4_046226_060916_1i0_spot5_049227_060718_1j0
5	spot5_046224_060804_1j0
6	irsp6_020021_060803_130
6	irsp6_020021_060803_130_spot4_042219_060915_1i0
6	irsp6_020021_060803_130_spot4_045219_060507_2i2
6	irsp6_020021_060803_130_spot4_046221_050901_1i0
6	irsp6_020021_060803_130_spot5_042220_050630_1j0
6	irsp6_020021_060803_130_spot5_045221_050629_1j0
6	irsp6_020021_060803_130_spot5_046219_060611_1j0
6	irsp6_020021_060803_130_spot5_046220_050705_1j0
6	irsp6_023021_060725_130_spot4_046219_051012_2i0
6	irsp6_023021_060725_130_spot4_046220_051012_2i0
6	irsp6_023022_060725_130_irsp6_023022_070602_130
6	irsp6_023022_060725_130_irsp6_024022_060916_130
6	irsp6_023022_060725_130_spot4_046220_051012_2i0
6	irsp6_023022_070602_130_spot4_046221_050901_1i0
6	irsp6_023022_070602_130_spot5_046222_060702_2j0
6	irsp6_024022_060916_130_irsp6_025022_050505_130
6	irsp6_025021_050902_130_irsp6_026022_060505_130
6	irsp6_025022_050505_130_irsp6_026022_060505_130
6	irsp6_026022_060505_130
6	irsp6_026022_060505_130_irsp6_027023_050819_130
6	spot4_042222_061016_2i0_spot5_045222_060611_2j0
6	spot4_045221_060831_1i8_spot5_045221_050629_1j0
6	spot4_045221_060831_1i8_spot5_045222_060611_2j0
6	spot4_045221_060831_1i8_spot5_046222_060702_2j0
6	spot4_046220_051012_2i0_spot5_046220_050705_1j0
6	spot4_046221_050901_1i0
6	spot4_046221_050901_1i0_spot5_045221_050629_1j0
6	spot4_046221_050901_1i0_spot5_046220_050705_1j0
6	spot5_042220_050630_1j0
6	spot5_042220_050630_1j0_spot5_042221_060611_1j0
6	spot5_042221_060611_1j0

SCU	Working Unit
6	spot5_042221_060611_1j0_spot5_045221_050629_1j0
6	spot5_045221_050629_1j0
6	spot5_045221_050629_1j0_spot5_046222_060702_2j0
6	spot5_045222_060611_2j0
6	spot5_046219_050730_1j0_spot5_046219_060611_1j0
6	spot5_046223_060804_1j0
7	irsp6_020020_060803_130
7	irsp6_020020_060803_130_spot4_042215_060612_1i0
7	irsp6_020020_060803_130_spot4_042217_060612_1i0
7	irsp6_020020_060803_130_spot4_046216_060509_1i0
7	irsp6_020020_060803_130_spot4_046217_060509_1i0
7	irsp6_020020_060803_130_spot4_046218_060509_1i0
7	irsp6_020021_060803_130_spot4_042218_060612_1i0
7	irsp6_020021_060803_130_spot4_046218_060509_1i0
7	irsp6_022019_060720_130_irsp6_024020_060916_130
7	irsp6_023020_060725_130_irsp6_023020_070602_130
7	irsp6_023020_060725_130_irsp6_024020_060916_130
7	irsp6_023020_060725_130_spot4_046215_060612_2i3
7	irsp6_023020_070602_130_irsp6_023021_060725_130
7	irsp6_023020_070602_130_spot4_046217_060509_1i0
7	irsp6_023020_070602_130_spot5_046218_050731_2j0
7	irsp6_023021_060725_130
7	irsp6_023021_060725_130_irsp6_024021_060916_130
7	irsp6_024020_060612_130_irsp6_024020_060916_130
7	irsp6_024020_060612_130_irsp6_025020_050902_130
7	irsp6_024021_060612_130_irsp6_024021_060916_130
7	irsp6_024021_060612_130_irsp6_025021_050902_130
7	irsp6_025019_060711_130_spot5_057215_060909_1j0
7	irsp6_025020_050902_130_irsp6_026020_060505_130
7	irsp6_025020_050902_130_irsp6_026021_060505_130
7	irsp6_025020_050902_130_spot5_054217_050704_1j0
7	irsp6_025021_050902_130_irsp6_026021_060505_130
7	irsp6_026020_060505_130_irsp6_028019_060702_130
7	irsp6_026020_060505_130_spot4_054215_060705_2i1
7	irsp6_026020_060505_130_spot4_057217_060630_2i0
7	irsp6_026020_060505_130_spot5_057216_050706_1j0
7	irsp6_026020_060505_130_spot5_058216_060731_1j0
7	irsp6_026020_060505_130_spot5_058217_060731_1j0
7	irsp6_026021_060505_130_irsp6_028021_060702_130
7	irsp6_026021_060505_130_spot5_057218_050706_1j0
7	irsp6_026021_060505_130_spot5_057219_050706_1j0

SCU	Working Unit
7	irsp6_026021_060505_l30_spot5_058218_060909_2j3
7	irsp6_028021_060702_l30
7	irsp6_028021_060702_l30_spot5_058218_050902_1j0
7	irsp6_028021_060702_l30_spot5_058218_060909_2j3
7	spot4_042215_060612_1i0
7	spot4_046218_060509_1i0_spot5_046218_050731_2j0
7	spot4_046219_051012_2i0_spot5_046219_050730_1j0
7	spot5_049216_060629_1j0
7	spot5_057218_050706_1j0_spot5_058218_060909_2j3
7	spot5_057220_060612_1j0
7	spot5_058217_060731_1j0
8	irsp6_019018_050803_l30
8	irsp6_019018_050803_l30_spot4_042212_060914_1i0
8	irsp6_019018_050803_l30_spot4_042213_060914_1i0
8	irsp6_022018_060720_l30_spot4_042212_060914_1i0
8	irsp6_022019_060720_l30
8	irsp6_022019_060720_l30_spot4_042212_060914_1i0
8	irsp6_022019_060720_l30_spot4_042213_060914_1i0
8	irsp6_022019_060720_l30_spot5_046215_050731_2j0
8	irsp6_023020_060725_l30_spot5_046215_050731_2j0
8	irsp6_024019_060730_l30_irsp6_024019_060916_l30
8	irsp6_024019_060916_l30_irsp6_025019_060711_l30
8	irsp6_025019_060711_l30_irsp6_026019_060505_l30
8	irsp6_026019_060505_l30_irsp6_028019_060702_l30
8	irsp6_026019_060505_l30_spot5_057213_060909_1j0
8	irsp6_026019_060505_l30_spot5_058213_050827_1j5
8	irsp6_026019_060505_l30_spot5_058214_060731_1j0
8	irsp6_028019_060702_l30
8	irsp6_028019_060702_l30_spot5_058213_050827_1j5
8	spot4_042213_060914_1i0
8	spot4_042214_060809_1i0
8	spot4_042214_060809_1i0_spot4_042215_060612_1i0
8	spot4_046215_060612_2i3
8	spot4_046215_060612_2i3_spot5_046215_050731_2j0
8	spot5_049213_060720_2j0
8	spot5_049215_060629_1j0
8	spot5_058213_050827_1j5_spot5_058213_060731_1j0
8	spot5_058213_050827_1j5_spot5_058214_060731_1j0

SCU	Working Unit
8	spot5_061214_060625_1j0
8	spot5_061214_060625_1j0_spot5_058213_050827_1j5
9	irsp6_019016_060729_l30
9	irsp6_019016_060729_l30_irsp6_022017_050701_l30
9	irsp6_019017_060822_l30
9	irsp6_019017_060822_l30_irsp6_019018_050803_l30
9	irsp6_019017_060822_l30_irsp6_022017_050701_l30
9	irsp6_019018_050803_l30_irsp6_022018_060720_l30
9	irsp6_019018_050803_l30_spot4_042211_060820_2i0
9	irsp6_022017_050701_l30
9	irsp6_022017_050701_l30_irsp6_022018_060720_l30
9	irsp6_022017_050701_l30_irsp6_024018_060730_l30
9	irsp6_022017_050701_l30_spot4_045207_060915_1i6
9	irsp6_022017_050701_l30_spot4_045208_060915_1i6
9	irsp6_022018_060720_l30
9	irsp6_023017_050706_l30_irsp6_024017_060730_l30
9	irsp6_023017_050706_l30_irsp6_024018_060730_l30
9	irsp6_023017_050706_l30_spot4_046206_060820_2i4
9	irsp6_024017_060730_l30
9	irsp6_024017_060730_l30_irsp6_025018_050902_l30
9	irsp6_024017_060730_l30_irsp6_027017_050702_l30
9	irsp6_024017_060730_l30_irsp6_027018_050702_l30
9	irsp6_024017_060730_l30_spot4_053207_060915_1i0
9	irsp6_024018_060730_l30_irsp6_024018_060916_l30
9	irsp6_024018_060916_l30_irsp6_025018_050902_l30
9	irsp6_025018_050902_l30_irsp6_026019_060505_l30
9	irsp6_025018_050902_l30_irsp6_027018_050702_l30
9	irsp6_025018_050902_l30_spot5_054212_060730_2j0
9	irsp6_025018_050902_l30_spot5_057211_060810_2j9
9	irsp6_027017_050702_l30
9	irsp6_027017_050702_l30_spot4_057208_060728_2i2
9	irsp6_027017_050702_l30_spot4_057210_050902_2i0
9	irsp6_027018_050702_l30_spot4_057210_050902_2i0
9	irsp6_027018_050702_l30_spot4_058211_060727_2i5
9	irsp6_027018_050702_l30_spot4_058212_050919_1i0
9	irsp6_027018_050702_l30_spot4_058212_050919_1i6
9	irsp6_027018_050702_l30_spot5_057211_060810_2j0
9	irsp6_027018_050702_l30_spot5_058211_050922_2j0
9	spot4_042211_060820_2i0
9	spot4_046206_060820_2i4
9	spot4_058212_050919_1i6_spot5_058213_060731_1j0
9	spot4_058212_050919_1i6_spot5_061213_060801_2j

SCU	Working Unit
	0
9	spot5_061213_060801_2j0
9	spot5_061213_060801_2j0_spot5_061213_060925_1j0

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	TRUE
1	0,0	FALSE	FALSE	TRUE	TRUE
2	0,0	FALSE	FALSE	TRUE	TRUE
3	0,0	FALSE	FALSE	TRUE	TRUE
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	0,0	FALSE	FALSE	TRUE	FALSE
13	0,0	FALSE	FALSE	TRUE	TRUE
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	FALSE
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	FALSE
24	0,0	FALSE	FALSE	TRUE	TRUE
25	0,0	FALSE	FALSE	TRUE	TRUE
26	0,0	FALSE	FALSE	TRUE	TRUE
27	0,0	FALSE	FALSE	TRUE	TRUE
28	0,0	FALSE	FALSE	TRUE	FALSE
29	0,0	FALSE	FALSE	TRUE	TRUE
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	8,1	FALSE	FALSE	TRUE	FALSE
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	TRUE
38	0,0	FALSE	FALSE	TRUE	FALSE
39	0,0	FALSE	FALSE	TRUE	FALSE
40	0,0	FALSE	FALSE	TRUE	TRUE
41	0,0	FALSE	FALSE	TRUE	TRUE
42	0,0	FALSE	FALSE	TRUE	TRUE
43	0,0	FALSE	FALSE	TRUE	TRUE
44	0,0	FALSE	FALSE	TRUE	FALSE
45	0,0	FALSE	FALSE	TRUE	FALSE
46	0,0	FALSE	FALSE	TRUE	TRUE
47	0,0	FALSE	FALSE	TRUE	TRUE
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	TRUE
52	0,0	FALSE	FALSE	TRUE	FALSE
53	0,0	FALSE	FALSE	TRUE	TRUE
54	0,0	FALSE	FALSE	TRUE	FALSE
55	0,0	FALSE	FALSE	TRUE	TRUE
56	0,0	FALSE	FALSE	TRUE	FALSE
57	0,0	FALSE	FALSE	TRUE	TRUE
58	0,0	FALSE	FALSE	TRUE	FALSE
59	0,0	FALSE	FALSE	TRUE	TRUE
60	0,0	FALSE	FALSE	TRUE	FALSE
61	0,0	FALSE	FALSE	TRUE	TRUE
62	0,0	FALSE	FALSE	TRUE	FALSE
63	0,0	FALSE	FALSE	TRUE	FALSE
64	0,0	FALSE	FALSE	TRUE	TRUE
65	0,0	FALSE	FALSE	TRUE	TRUE
66	0,0	FALSE	FALSE	TRUE	FALSE
67	0,9	FALSE	FALSE	TRUE	FALSE
68	0,0	FALSE	TRUE	FALSE	TRUE
69	47,7	FALSE	TRUE	FALSE	FALSE
70	79,7	FALSE	TRUE	FALSE	TRUE
71	3,0	FALSE	FALSE	TRUE	FALSE
72	0,0	FALSE	FALSE	TRUE	TRUE
73	70,8	FALSE	TRUE	FALSE	TRUE
74	5,1	FALSE	FALSE	TRUE	FALSE
75	0,0	FALSE	TRUE	FALSE	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]
76	6,0	FALSE	FALSE	TRUE	FALSE
77	0,0	FALSE	FALSE	TRUE	FALSE
78	0,4	FALSE	FALSE	TRUE	TRUE
79	98,3	TRUE	TRUE	TRUE	FALSE
80	99,1	TRUE	TRUE	TRUE	FALSE
81	93,0	TRUE	TRUE	TRUE	TRUE
82	45,3	FALSE	FALSE	TRUE	FALSE
83	17,1	FALSE	FALSE	TRUE	TRUE
84	42,3	FALSE	FALSE	TRUE	TRUE
85	31,8	FALSE	FALSE	TRUE	FALSE
86	35,6	FALSE	FALSE	TRUE	FALSE
87	16,9	FALSE	FALSE	TRUE	FALSE
88	11,1	FALSE	FALSE	TRUE	TRUE
89	0,0	FALSE	FALSE	TRUE	FALSE
90	2,1	FALSE	FALSE	TRUE	TRUE
91	100,0	TRUE	TRUE	TRUE	FALSE
92	0,0	FALSE	FALSE	TRUE	FALSE
93	37,0	FALSE	FALSE	TRUE	FALSE
94	16,9	FALSE	FALSE	TRUE	FALSE
95	15,0	FALSE	FALSE	TRUE	TRUE
96	10,2	FALSE	FALSE	TRUE	FALSE
97	21,4	FALSE	FALSE	TRUE	TRUE
98	12,6	FALSE	FALSE	TRUE	FALSE
99	100,0	TRUE	TRUE	TRUE	FALSE
100	45,4	FALSE	FALSE	TRUE	FALSE
101	5,8	FALSE	FALSE	TRUE	FALSE
102	100,0	TRUE	TRUE	TRUE	FALSE
103	30,7	FALSE	FALSE	TRUE	FALSE
104	18,3	FALSE	FALSE	TRUE	TRUE
105	11,2	FALSE	FALSE	TRUE	FALSE
106	45,0	FALSE	FALSE	TRUE	FALSE
107	9,7	FALSE	FALSE	TRUE	FALSE
108	0,0	FALSE	FALSE	TRUE	FALSE
109	1,9	FALSE	FALSE	TRUE	FALSE
110	16,2	FALSE	FALSE	TRUE	TRUE
111	100,0	TRUE	TRUE	TRUE	TRUE
112	100,0	TRUE	TRUE	TRUE	TRUE
113	24,6	FALSE	FALSE	TRUE	FALSE
114	100,0	TRUE	TRUE	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]
115	45,0	FALSE	FALSE	TRUE	TRUE
116	0,9	FALSE	FALSE	TRUE	TRUE
117	100,0	TRUE	TRUE	TRUE	FALSE
118	2,3	FALSE	FALSE	TRUE	FALSE
119	1,3	FALSE	FALSE	TRUE	FALSE
120	2,6	FALSE	FALSE	TRUE	FALSE
121	11,8	FALSE	FALSE	TRUE	FALSE
122	10,5	FALSE	FALSE	TRUE	FALSE
123	0,2	FALSE	FALSE	TRUE	FALSE
124	27,0	FALSE	FALSE	TRUE	FALSE
125	29,6	FALSE	FALSE	TRUE	FALSE
126	21,8	FALSE	FALSE	TRUE	FALSE
127	100,0	TRUE	TRUE	TRUE	TRUE
128	1,2	FALSE	FALSE	TRUE	TRUE
129	0,0	FALSE	TRUE	FALSE	TRUE
130	5,8	FALSE	FALSE	TRUE	TRUE
131	0,0	FALSE	FALSE	TRUE	FALSE
132	7,9	FALSE	FALSE	TRUE	FALSE
133	99,7	TRUE	TRUE	TRUE	FALSE
134	0,0	FALSE	FALSE	TRUE	TRUE
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	TRUE
139	0,0	FALSE	FALSE	TRUE	FALSE
140	0,0	FALSE	FALSE	TRUE	FALSE
141	0,0	FALSE	FALSE	TRUE	FALSE
142	0,0	FALSE	FALSE	TRUE	TRUE
143	0,0	FALSE	FALSE	TRUE	TRUE
144	0,0	FALSE	FALSE	TRUE	FALSE
145	0,0	FALSE	FALSE	TRUE	TRUE
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	TRUE
150	0,0	FALSE	FALSE	TRUE	FALSE
151	0,0	FALSE	FALSE	TRUE	FALSE
152	0,0	FALSE	FALSE	TRUE	FALSE
153	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]
154	0,0	FALSE	FALSE	TRUE	FALSE
155	0,0	FALSE	FALSE	TRUE	FALSE
156	0,0	FALSE	FALSE	TRUE	FALSE
157	0,0	FALSE	FALSE	TRUE	FALSE
158	0,0	FALSE	FALSE	TRUE	FALSE
159	0,0	FALSE	FALSE	TRUE	FALSE
160	0,0	FALSE	FALSE	TRUE	FALSE
161	0,0	FALSE	FALSE	TRUE	FALSE
162	0,0	FALSE	FALSE	TRUE	FALSE
163	0,0	FALSE	FALSE	TRUE	FALSE
164	0,0	FALSE	FALSE	TRUE	FALSE
165	0,0	FALSE	FALSE	TRUE	FALSE
166	0,0	FALSE	FALSE	TRUE	FALSE
167	0,0	FALSE	FALSE	TRUE	FALSE
168	0,0	FALSE	FALSE	TRUE	FALSE
169	3,6	FALSE	FALSE	TRUE	FALSE
170	0,0	FALSE	FALSE	TRUE	FALSE
171	0,0	FALSE	FALSE	TRUE	FALSE
172	0,0	FALSE	FALSE	TRUE	FALSE
173	0,0	FALSE	FALSE	TRUE	FALSE
174	0,0	FALSE	FALSE	TRUE	FALSE
175	0,0	FALSE	FALSE	TRUE	FALSE
176	0,0	FALSE	FALSE	TRUE	TRUE
177	0,0	FALSE	FALSE	TRUE	FALSE
178	0,0	FALSE	FALSE	TRUE	FALSE
179	0,0	FALSE	FALSE	TRUE	FALSE
180	0,0	FALSE	FALSE	TRUE	FALSE
181	0,0	FALSE	FALSE	TRUE	FALSE
182	0,0	FALSE	FALSE	TRUE	FALSE
183	0,0	FALSE	FALSE	TRUE	FALSE
184	0,0	FALSE	FALSE	TRUE	FALSE
185	0,0	FALSE	FALSE	TRUE	TRUE
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	FALSE
199	0,0	FALSE	FALSE	TRUE	FALSE
200	0,0	FALSE	FALSE	TRUE	FALSE
201	22,2	FALSE	FALSE	TRUE	FALSE
202	5,2	FALSE	FALSE	TRUE	FALSE
203	50,5	FALSE	FALSE	TRUE	TRUE
204	16,6	FALSE	FALSE	TRUE	FALSE
205	8,6	FALSE	FALSE	TRUE	FALSE
206	70,0	FALSE	FALSE	TRUE	FALSE
207	14,7	FALSE	FALSE	TRUE	FALSE
208	23,7	FALSE	FALSE	TRUE	FALSE
209	0,0	FALSE	FALSE	TRUE	TRUE
210	19,3	FALSE	FALSE	TRUE	FALSE
211	10,4	FALSE	FALSE	TRUE	FALSE
212	1,5	FALSE	FALSE	TRUE	FALSE
213	6,5	FALSE	FALSE	TRUE	FALSE
214	3,0	FALSE	FALSE	TRUE	FALSE
215	86,6	TRUE	TRUE	TRUE	FALSE
216	24,6	FALSE	FALSE	TRUE	FALSE
217	20,3	FALSE	FALSE	TRUE	FALSE
218	30,4	FALSE	FALSE	TRUE	FALSE
219	31,8	FALSE	FALSE	TRUE	FALSE
220	9,8	FALSE	FALSE	TRUE	FALSE
221	8,0	FALSE	FALSE	TRUE	FALSE
222	24,8	FALSE	FALSE	TRUE	FALSE
223	0,0	FALSE	FALSE	TRUE	FALSE
224	6,3	FALSE	FALSE	TRUE	TRUE
225	29,9	FALSE	FALSE	TRUE	TRUE
226	0,0	FALSE	TRUE	FALSE	FALSE
227	31,7	FALSE	FALSE	TRUE	FALSE
228	14,2	FALSE	FALSE	TRUE	FALSE
229	30,7	FALSE	FALSE	TRUE	FALSE
230	5,3	FALSE	FALSE	TRUE	FALSE
231	19,1	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]
232	21,3	FALSE	FALSE	TRUE	FALSE
233	61,4	FALSE	TRUE	FALSE	FALSE
234	0,0	FALSE	FALSE	TRUE	FALSE
235	20,1	FALSE	FALSE	TRUE	FALSE
236	14,2	FALSE	FALSE	TRUE	FALSE
237	77,1	FALSE	TRUE	FALSE	FALSE
238	7,0	FALSE	FALSE	TRUE	FALSE
239	43,5	FALSE	FALSE	TRUE	FALSE
240	10,7	FALSE	FALSE	TRUE	FALSE
241	5,4	FALSE	FALSE	TRUE	FALSE
242	0,0	FALSE	FALSE	TRUE	FALSE
243	16,7	FALSE	FALSE	TRUE	FALSE
244	92,6	TRUE	FALSE	FALSE	FALSE
245	14,0	FALSE	FALSE	TRUE	FALSE
246	78,2	FALSE	TRUE	FALSE	FALSE
247	70,9	FALSE	FALSE	TRUE	FALSE
248	9,6	FALSE	FALSE	TRUE	FALSE
249	80,6	TRUE	TRUE	TRUE	FALSE
250	48,6	FALSE	FALSE	TRUE	FALSE
251	0,0	FALSE	FALSE	TRUE	FALSE
252	11,4	FALSE	FALSE	TRUE	FALSE
253	6,6	FALSE	FALSE	TRUE	FALSE
254	8,2	FALSE	FALSE	TRUE	FALSE
255	1,6	FALSE	FALSE	TRUE	FALSE
256	7,6	FALSE	FALSE	TRUE	FALSE
257	40,4	FALSE	FALSE	TRUE	FALSE
258	98,5	TRUE	TRUE	TRUE	FALSE
259	10,9	FALSE	FALSE	TRUE	FALSE
260	10,7	FALSE	FALSE	TRUE	FALSE
261	22,2	FALSE	FALSE	TRUE	FALSE
262	15,9	FALSE	FALSE	TRUE	FALSE
263	0,9	FALSE	FALSE	TRUE	FALSE
264	1,4	FALSE	FALSE	TRUE	FALSE
265	11,4	FALSE	FALSE	TRUE	FALSE
266	15,3	FALSE	FALSE	TRUE	FALSE
267	21,4	FALSE	FALSE	TRUE	FALSE
268	0,0	FALSE	FALSE	TRUE	FALSE
269	0,0	FALSE	FALSE	TRUE	FALSE
270	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]
271	0,0	FALSE	FALSE	TRUE	FALSE
272	0,0	FALSE	FALSE	TRUE	FALSE
273	0,0	FALSE	FALSE	TRUE	FALSE
274	0,0	FALSE	FALSE	TRUE	FALSE
275	0,0	FALSE	FALSE	TRUE	FALSE
276	0,0	FALSE	FALSE	TRUE	FALSE
277	0,0	FALSE	FALSE	TRUE	FALSE
278	0,0	FALSE	FALSE	TRUE	FALSE
279	0,0	FALSE	FALSE	TRUE	FALSE
280	0,0	FALSE	FALSE	TRUE	FALSE
281	0,0	FALSE	FALSE	TRUE	FALSE
282	0,0	FALSE	FALSE	TRUE	FALSE
283	0,0	FALSE	FALSE	TRUE	FALSE
284	0,0	FALSE	FALSE	TRUE	FALSE
285	0,0	FALSE	FALSE	TRUE	FALSE
286	0,0	FALSE	FALSE	TRUE	FALSE
287	0,0	FALSE	FALSE	TRUE	FALSE
288	0,0	FALSE	FALSE	TRUE	FALSE
289	0,0	FALSE	FALSE	TRUE	FALSE
290	0,0	FALSE	FALSE	TRUE	FALSE
291	0,0	FALSE	FALSE	TRUE	FALSE
292	0,0	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	0,0	FALSE	FALSE	TRUE	FALSE
297	0,0	FALSE	FALSE	TRUE	FALSE
298	0,0	FALSE	FALSE	TRUE	FALSE
299	0,0	FALSE	FALSE	TRUE	FALSE
300	0,0	FALSE	FALSE	TRUE	FALSE
301	0,0	FALSE	FALSE	TRUE	FALSE
302	3,7	FALSE	FALSE	TRUE	FALSE
303	0,0	FALSE	FALSE	TRUE	FALSE
304	0,0	FALSE	FALSE	TRUE	FALSE
305	0,0	FALSE	FALSE	TRUE	FALSE
306	5,9	FALSE	FALSE	TRUE	FALSE
307	0,0	FALSE	FALSE	TRUE	FALSE
308	0,0	FALSE	FALSE	TRUE	FALSE
309	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]
310	0,0	FALSE	FALSE	TRUE	FALSE
311	0,0	FALSE	FALSE	TRUE	FALSE
312	0,0	FALSE	FALSE	TRUE	FALSE
313	0,0	FALSE	FALSE	TRUE	TRUE
314	0,0	FALSE	FALSE	TRUE	FALSE
315	0,0	FALSE	FALSE	TRUE	TRUE
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	FALSE
320	2,9	FALSE	FALSE	TRUE	FALSE
321	0,0	FALSE	FALSE	TRUE	FALSE
322	0,5	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	FALSE
328	0,0	FALSE	FALSE	TRUE	FALSE
329	0,0	FALSE	FALSE	TRUE	FALSE
330	0,0	FALSE	FALSE	TRUE	FALSE
331	0,0	FALSE	FALSE	TRUE	FALSE
332	0,0	FALSE	FALSE	TRUE	FALSE
333	0,0	FALSE	FALSE	TRUE	FALSE
334	0,0	FALSE	FALSE	TRUE	FALSE
335	70,8	FALSE	FALSE	TRUE	FALSE
336	55,5	FALSE	TRUE	FALSE	FALSE
337	33,6	FALSE	FALSE	TRUE	FALSE
338	76,6	FALSE	TRUE	FALSE	FALSE
339	53,2	FALSE	FALSE	TRUE	FALSE
340	74,0	FALSE	TRUE	FALSE	FALSE
341	10,2	FALSE	FALSE	TRUE	FALSE
342	14,6	FALSE	FALSE	TRUE	FALSE
343	3,5	FALSE	FALSE	TRUE	FALSE
344	30,3	FALSE	FALSE	TRUE	TRUE
345	32,8	FALSE	FALSE	TRUE	FALSE
346	0,6	FALSE	FALSE	TRUE	FALSE
347	43,5	FALSE	FALSE	TRUE	FALSE
348	48,9	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]
349	0,0	FALSE	FALSE	TRUE	FALSE
350	18,0	FALSE	FALSE	TRUE	FALSE
351	96,5	TRUE	TRUE	TRUE	FALSE
352	35,1	FALSE	FALSE	TRUE	FALSE
353	10,5	FALSE	FALSE	TRUE	FALSE
354	12,6	FALSE	FALSE	TRUE	FALSE
355	6,0	FALSE	FALSE	TRUE	FALSE
356	98,9	TRUE	TRUE	TRUE	FALSE
357	12,1	FALSE	FALSE	TRUE	FALSE
358	86,0	TRUE	TRUE	TRUE	FALSE
359	0,0	FALSE	FALSE	TRUE	FALSE
360	9,8	FALSE	FALSE	TRUE	FALSE
361	96,1	TRUE	TRUE	TRUE	FALSE
362	0,0	FALSE	FALSE	TRUE	FALSE
363	0,0	FALSE	FALSE	TRUE	FALSE
364	26,4	FALSE	FALSE	TRUE	FALSE
365	76,8	FALSE	FALSE	TRUE	FALSE
366	1,7	FALSE	FALSE	TRUE	FALSE
367	41,6	FALSE	FALSE	TRUE	FALSE
368	15,7	FALSE	FALSE	TRUE	FALSE
369	0,0	FALSE	FALSE	TRUE	FALSE
370	0,0	FALSE	FALSE	TRUE	FALSE
371	1,5	FALSE	FALSE	TRUE	FALSE
372	0,0	FALSE	FALSE	TRUE	FALSE
373	14,5	FALSE	FALSE	TRUE	FALSE
374	47,1	FALSE	TRUE	FALSE	FALSE
375	1,2	FALSE	FALSE	TRUE	FALSE
376	0,0	FALSE	FALSE	TRUE	FALSE
377	6,4	FALSE	FALSE	TRUE	FALSE
378	99,9	TRUE	TRUE	TRUE	FALSE
379	0,0	FALSE	FALSE	TRUE	FALSE
380	3,5	FALSE	FALSE	TRUE	FALSE
381	11,8	FALSE	FALSE	TRUE	FALSE
382	0,0	FALSE	FALSE	TRUE	FALSE
383	70,8	FALSE	TRUE	FALSE	FALSE
384	20,9	FALSE	FALSE	TRUE	FALSE
385	2,8	FALSE	FALSE	TRUE	FALSE
386	40,8	FALSE	FALSE	TRUE	FALSE
387	49,3	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	7,6	FALSE	FALSE	TRUE	FALSE
389	16,4	FALSE	FALSE	TRUE	FALSE
390	0,0	FALSE	FALSE	TRUE	FALSE
391	91,8	TRUE	TRUE	TRUE	FALSE
392	0,0	FALSE	FALSE	TRUE	FALSE
393	99,8	TRUE	TRUE	TRUE	FALSE
394	0,9	FALSE	FALSE	TRUE	FALSE
395	9,2	FALSE	FALSE	TRUE	FALSE
396	35,7	FALSE	TRUE	FALSE	FALSE
397	1,5	FALSE	FALSE	TRUE	FALSE
398	12,5	FALSE	FALSE	TRUE	FALSE
399	23,9	FALSE	FALSE	TRUE	FALSE
400	15,2	FALSE	FALSE	TRUE	FALSE
401	36,4	FALSE	FALSE	TRUE	FALSE
402	0,0	FALSE	FALSE	TRUE	TRUE
403	0,0	FALSE	FALSE	TRUE	FALSE
404	0,4	FALSE	FALSE	TRUE	FALSE
405	0,0	FALSE	FALSE	TRUE	FALSE
406	0,0	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
410	0,0	FALSE	FALSE	TRUE	TRUE
411	0,0	FALSE	FALSE	TRUE	FALSE
412	0,0	FALSE	FALSE	TRUE	FALSE
413	0,0	FALSE	FALSE	TRUE	FALSE
414	0,0	FALSE	FALSE	TRUE	FALSE
415	0,0	FALSE	FALSE	TRUE	FALSE
416	0,0	FALSE	FALSE	TRUE	FALSE
417	0,0	FALSE	FALSE	TRUE	FALSE
418	0,0	FALSE	FALSE	TRUE	FALSE
419	0,0	FALSE	FALSE	TRUE	FALSE
420	0,0	FALSE	FALSE	TRUE	FALSE
421	0,0	FALSE	FALSE	TRUE	FALSE
422	0,0	FALSE	FALSE	TRUE	FALSE
423	0,0	FALSE	FALSE	TRUE	FALSE
424	0,0	FALSE	FALSE	TRUE	TRUE
425	0,0	FALSE	FALSE	TRUE	FALSE
426	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]
427	0,0	FALSE	FALSE	TRUE	TRUE
428	0,0	FALSE	FALSE	TRUE	FALSE
429	0,0	FALSE	FALSE	TRUE	FALSE
430	0,0	FALSE	FALSE	TRUE	FALSE
431	0,0	FALSE	FALSE	TRUE	TRUE
432	0,0	FALSE	FALSE	TRUE	TRUE
433	0,0	FALSE	FALSE	TRUE	TRUE
434	0,0	FALSE	FALSE	TRUE	FALSE
435	0,0	FALSE	FALSE	TRUE	FALSE
436	0,0	FALSE	FALSE	TRUE	FALSE
437	0,0	FALSE	FALSE	TRUE	FALSE
438	0,0	FALSE	FALSE	TRUE	FALSE
439	0,0	FALSE	FALSE	TRUE	TRUE
440	0,0	FALSE	FALSE	TRUE	FALSE
441	0,0	FALSE	FALSE	TRUE	FALSE
442	0,0	FALSE	FALSE	TRUE	TRUE
443	0,0	FALSE	FALSE	TRUE	FALSE
444	0,0	FALSE	FALSE	TRUE	FALSE
445	0,0	FALSE	FALSE	TRUE	FALSE
446	0,0	FALSE	FALSE	TRUE	TRUE
447	0,0	FALSE	FALSE	TRUE	TRUE
448	0,0	FALSE	FALSE	TRUE	FALSE
449	0,0	FALSE	FALSE	TRUE	TRUE
450	0,0	FALSE	FALSE	TRUE	FALSE
451	0,0	FALSE	FALSE	TRUE	FALSE
452	0,0	FALSE	FALSE	TRUE	TRUE
453	0,0	FALSE	FALSE	TRUE	FALSE
454	0,0	FALSE	FALSE	TRUE	FALSE
455	0,0	FALSE	FALSE	TRUE	FALSE
456	0,0	FALSE	FALSE	TRUE	FALSE
457	0,0	FALSE	FALSE	TRUE	FALSE
458	0,0	FALSE	FALSE	TRUE	FALSE
459	0,0	FALSE	FALSE	TRUE	FALSE
460	0,0	FALSE	FALSE	TRUE	TRUE
461	3,8	FALSE	FALSE	TRUE	FALSE
462	0,0	FALSE	FALSE	TRUE	FALSE
463	0,0	FALSE	FALSE	TRUE	FALSE
464	0,0	FALSE	FALSE	TRUE	FALSE
465	5,8	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]
466	14,2	FALSE	FALSE	TRUE	FALSE
467	0,0	FALSE	FALSE	TRUE	FALSE
468	0,0	FALSE	FALSE	TRUE	FALSE
469	56,3	FALSE	FALSE	TRUE	FALSE
470	6,9	FALSE	FALSE	TRUE	FALSE
471	100,0	TRUE	FALSE	FALSE	FALSE
472	2,0	FALSE	FALSE	TRUE	FALSE
473	11,3	FALSE	FALSE	TRUE	FALSE
474	35,8	FALSE	FALSE	TRUE	FALSE
475	25,9	FALSE	FALSE	TRUE	FALSE
476	84,7	TRUE	FALSE	FALSE	FALSE
477	12,2	FALSE	FALSE	TRUE	FALSE
478	95,8	TRUE	TRUE	TRUE	TRUE
479	6,2	FALSE	FALSE	TRUE	FALSE
480	30,3	FALSE	FALSE	TRUE	FALSE
481	1,9	FALSE	FALSE	TRUE	TRUE
482	7,7	FALSE	FALSE	TRUE	TRUE
483	24,3	FALSE	FALSE	TRUE	FALSE
484	7,2	FALSE	FALSE	TRUE	TRUE
485	39,8	FALSE	FALSE	TRUE	FALSE
486	0,7	FALSE	FALSE	TRUE	FALSE
487	89,9	TRUE	TRUE	TRUE	FALSE
488	99,9	TRUE	TRUE	TRUE	FALSE
489	53,8	FALSE	FALSE	TRUE	FALSE
490	0,0	FALSE	FALSE	TRUE	FALSE
491	5,5	FALSE	FALSE	TRUE	FALSE
492	6,2	FALSE	FALSE	TRUE	FALSE
493	19,9	FALSE	FALSE	TRUE	TRUE
494	26,5	FALSE	FALSE	TRUE	TRUE
495	1,5	FALSE	FALSE	TRUE	FALSE
496	14,9	FALSE	FALSE	TRUE	FALSE
497	12,6	FALSE	FALSE	TRUE	FALSE
498	22,9	FALSE	FALSE	TRUE	FALSE
499	50,9	FALSE	FALSE	TRUE	FALSE
500	0,4	FALSE	FALSE	TRUE	TRUE
501	0,0	FALSE	FALSE	TRUE	FALSE
502	45,0	FALSE	FALSE	TRUE	FALSE
503	94,6	TRUE	TRUE	TRUE	FALSE
504	49,8	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]
505	0,2	FALSE	FALSE	TRUE	FALSE
506	17,9	FALSE	FALSE	TRUE	FALSE
507	32,4	FALSE	FALSE	TRUE	FALSE
508	6,1	FALSE	FALSE	TRUE	FALSE
509	44,1	FALSE	FALSE	TRUE	TRUE
510	0,5	FALSE	FALSE	TRUE	FALSE
511	8,1	FALSE	FALSE	TRUE	FALSE
512	44,3	FALSE	FALSE	TRUE	FALSE
513	1,3	FALSE	FALSE	TRUE	FALSE
514	11,1	FALSE	FALSE	TRUE	FALSE
515	60,0	FALSE	FALSE	TRUE	TRUE
516	64,6	FALSE	TRUE	FALSE	FALSE
517	3,7	FALSE	FALSE	TRUE	TRUE
518	5,3	FALSE	FALSE	TRUE	FALSE
519	10,3	FALSE	FALSE	TRUE	FALSE
520	31,6	FALSE	FALSE	TRUE	FALSE
521	19,5	FALSE	FALSE	TRUE	FALSE
522	4,0	FALSE	FALSE	TRUE	TRUE
523	75,3	FALSE	TRUE	FALSE	FALSE
524	87,5	TRUE	TRUE	TRUE	TRUE
525	7,6	FALSE	FALSE	TRUE	FALSE
526	34,9	FALSE	FALSE	TRUE	TRUE
527	4,4	FALSE	FALSE	TRUE	FALSE
528	0,9	FALSE	FALSE	TRUE	FALSE
529	0,0	FALSE	FALSE	TRUE	TRUE
530	13,1	FALSE	FALSE	TRUE	FALSE
531	11,4	FALSE	FALSE	TRUE	TRUE
532	48,1	FALSE	FALSE	TRUE	FALSE
533	44,9	FALSE	FALSE	TRUE	FALSE
534	0,0	FALSE	FALSE	TRUE	FALSE
535	2,3	FALSE	FALSE	TRUE	FALSE