

Sheringham Recycling Centre: Surface Water Drainage 1 in 2, 30 (+45% CC) and 100 (+45% CC) RP	Date: 14/04/2023		
	Designed by: RO	Checked by: SL	Approved By: TB
Report Details: Type: Inflows Storm Phase: Phase	Stantec UK Ltd: 3rd Floor, Station Road, Cambridge CB1 2JH		



Catchment Area

Type : Catchment Area

Area (ha)

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	85



Catchment Area (2)

Type : Catchment Area

Area (ha)

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	85

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Catchment Area (3)

Type : Catchment Area

Area (ha) 0.017

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	85



Catchment Area (4)

Type : Catchment Area

Area (ha) 0.025

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	85

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Catchment Area (5)

Type : Catchment Area

Area (ha) 0.062

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	85



Catchment Area (6)

Type : Catchment Area

Area (ha) 0.009

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	85

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Catchment Area (7)

Type : Catchment Area

Area (ha) 0.007

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	85



Catchment Area (8)

Type : Catchment Area

Area (ha) 0.065

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	85

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Catchment Area (1)

Type : Catchment Area

Area (ha)

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	85



Catchment Area (9)

Type : Catchment Area

Area (ha)

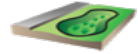
Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	85

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Report Details: Type: Junctions Storm Phase: Phase	Stantec UK Ltd: 3rd Floor, Station Road, Cambridge CB1 2JH		

Name	Junction Type	Easting (m)	Northing (m)	Cover Level (m)	Depth (m)	Invert Level (m)	Chamber Shape	Diameter (m)	Manhole Locked	Access Required	Easting (m)	Northing (m)
S1	Manhole	616262.891	341024.746	90.218	1.168	89.050	Circular	1.200	<input type="checkbox"/>	<input type="checkbox"/>		
S2	Manhole	616279.735	341017.896	89.908	1.088	88.820	Circular	1.200	<input type="checkbox"/>	<input type="checkbox"/>		
S3	Manhole	616288.890	341021.904	89.679	1.134	88.545	Circular	1.200	<input type="checkbox"/>	<input type="checkbox"/>		
S4	Manhole	616309.916	341012.954	89.663	1.209	88.454	Circular	1.200	<input type="checkbox"/>	<input type="checkbox"/>		
S5	Manhole	616312.130	341012.081	89.507	1.065	88.442	Circular	1.200	<input type="checkbox"/>	<input type="checkbox"/>		

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Bioretention

Type : Bioretention

Ponding Area

Exceedence Level (m)	88.900
Depth (m)	0.900
Base Level (m)	88.000
Top Area (m ²)	239.49
Side Slope (1:x)	2.50
Base Area (m ²)	53.45
Freeboard (mm)	0
Porosity (%)	100
Length (m)	41.342
Long. Slope (1:x)	0.00
Filtration Rate (m/hr)	0.3
Friction Scheme	Manning's n
n	0.045
Total Volume (m ³)	147.861

Filter Area

Base Level (m)	87.000
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Filtration Layers

Use	Name	Filtration Layer Depth (mm)	Porosity (%)	Conductivity (m/hr)	Soil Type
<input type="checkbox"/>	Soil	0	0	0.0	Soil Type
	Storage	1000	30	0.3	

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Advanced

Safety Factor	1.5
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Ponding Area

Side Infiltration Rate (m/hr)	0.139
Base Perimeter (m)	85.270
Top Perimeter (m)	94.270

Filter Area

Base Infiltration Rate (m/hr)	0.139
Side Infiltration Rate (m/hr)	0.139

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Swale

Type : Swale

Swale

Exceedence Level (m)	89.135
Depth (m)	0.400
Base Level (m)	88.735
Top Width (m)	2.500
Side Slope (1:x)	2.50
Base Width (m)	0.500
Freeboard (mm)	0
Length (m)	79.493
Long. Slope (1:x)	300.00
Filtration Rate (m/hr)	0.0
Friction Scheme	Manning's n
n	0.045
Total Volume (m³)	47.696

Advanced

Safety Factor	1.5
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Swale

Base Infiltration Rate (m/hr)	0.139
Side Infiltration Rate (m/hr)	0.139
Porosity (%)	100

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Name	Length (m)	Connection Type	Slope (1:x)	Manning's n	Colebrook-White Roughness (mm)	Diameter / Base Width (mm)	Upstream Cover Level (m)	Upstream Invert Level (m)	Downstream Cover Level (m)	Downstream Invert Level (m)
S1.000	18.184	Pipe	80.105		0.6	150	90.218	89.050	89.908	88.823
S1.001	9.993	Pipe	79.947		0.6	150	89.908	88.820	89.679	88.695
S1.002	22.852	Pipe	251.119		0.6	300	89.679	88.545	89.663	88.454
S1.003	2.380	Pipe	198.341		0.6	300	89.663	88.454	89.507	88.442
S1.004	8.102	Pipe	225.063		0.6	300	89.507	88.442	88.900	88.406

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Report Details: Type: Network Design Criteria Storm Phase: Phase	Stantec UK Ltd: 3rd Floor, Station Road, Cambridge CB1 2JH			

Flow Options

Peak Flow Calculation	(UK) Modified Rational Method
Min. Time of Entry (mins)	5
Max. Travel Time (mins)	30

Pipe Options

Lock Slope Options	None
Design Level	Level Soffits
Min. Cover Depth (m)	1.200
Min. Slope (1:x)	500.00
Max. Slope (1:x)	40.00
Min. Velocity (m/s)	1.0
Max. Velocity (m/s)	3.0
Use Flow Restriction	<input type="checkbox"/>
Reduce Channel Depths	<input type="checkbox"/>

Manhole Options

Apply Offset	<input type="checkbox"/>
Synchronise Manhole Invert Levels	<input checked="" type="checkbox"/>

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Report Details: Type: Rainfall Analysis Criteria	Stantec UK Ltd: 3rd Floor, Station Road, Cambridge CB1 2JH		



Runoff Type	Dynamic
Output Interval (mins)	5
Time Step	Default
Urban Creep	Apply Global Value
Urban Creep Global Value (%)	0
Junction Flood Risk Margin (mm)	300
Perform No Discharge Analysis	<input type="checkbox"/>

Rainfall

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FEH

Type: FEH

Site Location	GB 616285 341035 TG 16285 41035	
Rainfall Version		2013
Data Type		Point
Summer	<input checked="" type="checkbox"/>	
Winter	<input checked="" type="checkbox"/>	

Return Period

Return Period (years)	Increase Rainfall (%)
2.0	0
30.0	45
100.0	45

Storm Durations

Duration (mins)	Run Time (mins)
60	120
120	240
180	360
240	480
360	720
480	960
600	1200
720	1440
960	1920
1440	2880
2160	4320
2880	5760
4320	8640
5760	11520

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FSR	Type: FSR
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Region	England and Wales
M5-60 (mm)	19.0
Ratio R	0.400
Summer	<input checked="" type="checkbox"/>
Winter	<input checked="" type="checkbox"/>

Return Period

Return Period (years)	Increase Rainfall (%)
2.0	0
30.0	0
100.0	45

Storm Durations

Duration (mins)	Run Time (mins)
15	30
30	60

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Report Details: Type: Stormwater Controls Summary Storm Phase: Phase	Stantec UK Ltd: 3rd Floor, Station Road, Cambridge CB1 2JH		



FEH: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Percentage Available (%)	Status
Bioretention	FEH: 2 years: +0 %: 120 mins: Summer	88.257	88.257	1.257	1.257	18.2	23.353	0.000	35.991	0.0	0.000	69	84	OK
Swale	FEH: 2 years: +0 %: 120 mins: Summer	89.058	88.931	0.058	0.196	6.4	6.000	0.000	13.578	0.0	0.000	28	87	OK

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FEH: 30 years: Increase Rainfall (%): +45: Critical Storm Per Item

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Percentage Available (%)	Status
Bioretention	FEH: 30 years: +45 %: 180 mins: Summer	88.712	88.712	1.712	1.712	45.4	89.079	0.000	107.289	0.0	0.007	163	40	OK
Swale	FEH: 30 years: +45 %: 120 mins: Summer	89.130	89.130	0.130	0.395	20.2	25.882	0.000	37.585	0.0	0.000	63	46	OK

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FEH: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Percentage Available (%)	Status
Bioretention	FEH: 100 years: +45 %: 240 mins: Summer	88.887	88.887	1.887	1.887	49.8	127.365	0.000	165.230	0.0	4.098	178	14	OK
Swale	FEH: 100 years: +45 %: 180 mins: Summer	89.201	89.201	0.202	0.466	21.6	37.202	2.832	61.718	0.0	0.000	97	22	Flood

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FSR: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Percentage Available (%)	Status
Bioretention	FSR: 2 years: +0 %: 30 mins: Summer	88.250	88.250	1.250	1.250	28.2	19.999	0.000	8.808	0.0	0.000	94	86	OK
Swale	FSR: 2 years: +0 %: 30 mins: Summer	89.075	88.932	0.075	0.197	10.0	6.051	0.000	5.121	0.0	0.000	36	87	OK

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FSR: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Percentage Available (%)	Status
Bioretention	FSR: 30 years: +0 %: 30 mins: Summer	88.435	88.435	1.435	1.435	53.8	40.642	0.000	11.966	0.0	0.000	143	73	OK
Swale	FSR: 30 years: +0 %: 30 mins: Winter	89.103	89.021	0.103	0.286	17.9	12.842	0.000	7.577	0.0	0.000	57	73	OK

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FSR: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Percentage Available (%)	Status
Bioretention	FSR: 100 years: +45 %: 30 mins: Summer	88.681	88.681	1.681	1.681	101.7	78.371	0.000	16.102	0.0	0.000	204	47	OK
Swale	FSR: 100 years: +45 %: 30 mins: Winter	89.143	89.131	0.144	0.396	33.8	26.025	0.000	10.985	0.0	0.000	85	45	OK

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FEH: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
S1.000	FEH: 2 years: +0 %: 60 mins: Summer	Pipe	S1	S2	90.2	89.086	0.047	3.242	0.5	0.13	2.6	OK
S1.001	FEH: 2 years: +0 %: 60 mins: Summer	Pipe	S2	S3	89.9	88.880	0.059	7.741	1.0	0.31	6.2	OK
S1.002	FEH: 2 years: +0 %: 60 mins: Summer	Pipe	S3	S4	89.7	88.640	0.103	18.048	0.7	0.21	14.4	OK
S1.003	FEH: 2 years: +0 %: 60 mins: Summer	Pipe	S4	S5	89.7	88.564	0.106	19.907	0.7	0.2	15.9	OK
S1.004	FEH: 2 years: +0 %: 60 mins: Summer	Pipe	S5	Bioretention	89.5	88.544	0.098	19.904	0.8	0.22	15.9	OK

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FEH: 30 years: Increase Rainfall (%): +45: Critical Storm Per Item

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
S1.000	FEH: 30 years: +45 %: 60 mins: Summer	Pipe	S1	S2	90.2	89.119	0.131	11.130	0.7	0.45	8.9	OK
S1.001	FEH: 30 years: +45 %: 60 mins: Summer	Pipe	S2	S3	89.9	89.015	0.150	26.577	1.2	1.07	21.3	Surcharged
S1.002	FEH: 30 years: +45 %: 60 mins: Summer	Pipe	S3	S4	89.7	88.760	0.226	61.978	0.9	0.71	49.6	OK
S1.003	FEH: 30 years: +45 %: 60 mins: Summer	Pipe	S4	S5	89.7	88.689	0.223	68.068	1.0	0.7	54.7	OK
S1.004	FEH: 30 years: +45 %: 60 mins: Summer	Pipe	S5	Bioretention	89.5	88.670	0.246	67.640	1.1	0.74	54.7	OK

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Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
S1.000	FEH: 100 years: +45 %: 60 mins: Summer	Pipe	S1	S2	90.2	89.246	0.150	14.855	0.7	0.6	11.9	Surcharged
S1.001	FEH: 100 years: +45 %: 60 mins: Summer	Pipe	S2	S3	89.9	89.154	0.150	35.404	1.6	1.42	28.3	Surcharged
S1.002	FEH: 100 years: +45 %: 60 mins: Summer	Pipe	S3	S4	89.7	88.842	0.300	82.307	0.9	0.94	66.0	OK
S1.003	FEH: 100 years: +45 %: 180 mins: Summer	Pipe	S4	S5	89.7	88.884	0.300	132.587	1.9	1.32	103.5	Surcharged
S1.004	FEH: 100 years: +45 %: 60 mins: Summer	Pipe	S5	Bioretention	89.5	88.816	0.300	89.915	1.2	0.97	71.7	Surcharged

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FSR: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
S1.000	FSR: 2 years: +0 %: 15 mins: Summer	Pipe	S1	S2	90.2	89.101	0.068	2.215	0.6	0.25	4.9	OK
S1.001	FSR: 2 years: +0 %: 15 mins: Summer	Pipe	S2	S3	89.9	88.908	0.085	5.289	1.1	0.57	11.4	OK
S1.002	FSR: 2 years: +0 %: 15 mins: Summer	Pipe	S3	S4	89.7	88.683	0.146	12.326	0.8	0.38	26.5	OK
S1.003	FSR: 2 years: +0 %: 15 mins: Summer	Pipe	S4	S5	89.7	88.607	0.146	13.589	0.8	0.36	28.1	OK
S1.004	FSR: 2 years: +0 %: 15 mins: Summer	Pipe	S5	Bioretention	89.5	88.580	0.132	13.576	0.9	0.37	27.1	OK

Sheringham Recycling Centre: Surface Water Drainage 1 in 2, 30 (+45% CC) and 100 (+45% CC) RP	Date: 14/04/2023		
	Designed by: RO	Checked by: SL	Approved By: TB
Report Details: Type: Connections Summary Storm Phase: Phase	Stantec UK Ltd: 3rd Floor, Station Road, Cambridge CB1 2JH		



FSR: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
S1.000	FSR: 30 years: +0 %: 15 mins: Summer	Pipe	S1	S2	90.2	89.122	0.118	4.196	0.6	0.48	9.4	OK
S1.001	FSR: 30 years: +0 %: 15 mins: Summer	Pipe	S2	S3	89.9	88.986	0.148	10.028	1.1	1.02	20.2	Surcharged
S1.002	FSR: 30 years: +0 %: 15 mins: Summer	Pipe	S3	S4	89.7	88.758	0.221	23.372	0.9	0.71	49.2	OK
S1.003	FSR: 30 years: +0 %: 15 mins: Summer	Pipe	S4	S5	89.7	88.684	0.217	25.773	1.0	0.68	53.1	OK
S1.004	FSR: 30 years: +0 %: 15 mins: Summer	Pipe	S5	Bioretention	89.5	88.647	0.191	25.759	1.1	0.7	51.9	OK

Sheringham Recycling Centre: Surface Water Drainage 1 in 2, 30 (+45% CC) and 100 (+45% CC) RP	Date: 14/04/2023		
	Designed by: RO	Checked by: SL	Approved By: TB
Report Details: Type: Connections Summary Storm Phase: Phase	Stantec UK Ltd: 3rd Floor, Station Road, Cambridge CB1 2JH		



FSR: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
S1.000	FSR: 100 years: +45 %: 15 mins: Summer	Pipe	S1	S2	90.2	89.551	0.150	7.893	0.7	0.65	13.0	Surcharged
S1.001	FSR: 100 years: +45 %: 15 mins: Summer	Pipe	S2	S3	89.9	89.442	0.150	18.846	1.9	1.68	33.4	Surcharged
S1.002	FSR: 100 years: +45 %: 15 mins: Summer	Pipe	S3	S4	89.7	89.018	0.300	43.867	1.2	1.27	88.3	Surcharged
S1.003	FSR: 100 years: +45 %: 15 mins: Summer	Pipe	S4	S5	89.7	88.836	0.300	47.978	1.4	1.23	97.1	Surcharged
S1.004	FSR: 100 years: +45 %: 15 mins: Summer	Pipe	S5	Bioretention	89.5	88.772	0.285	47.507	1.4	1.29	95.3	Surcharged