Design Stage Water Neutrality Report

Development at Grainingfold Farm, Five Oaks, Billingshurst

Rev D

For

Ms S Hart

17th February 2023

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All information within this document is based on evidence provided in the form of drawings and specifications.

CPD (Continual Professional Development) records are kept and all technical staff are required to complete a minimum 20 hours per year in training activities.

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This document contains the following information:

1. Assessment Criteria
2. Executive Summary
3. Dwelling Water Consumption
4. Proposed Scheme Water Usage
5. Existing Dwellings Water Usage
6. Existing Dwellings Water Consumption after water efficient fittings have been added.

Appendix 1. Water Calculation Outputs
Appendix 2. Schedule of fittings in the mitigation property
Appendix 2. Water Meter Reading

Project Ref: 303736

Report Date: 14/02/2022 **Revision D**: 17/02/2023

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1) Assessment Criteria

The site is located within the Sussex North water resource supply zone. Sussex North area is supplied by a water extraction at Hardham. Natural England cannot accept an adverse impact on the integrity on the Arun Valley SPA, SAC and RAMSAR.

Therefore, there needs to be confirmation the proposal would not lead to an increase in water consumption on the site, which is likely to have a significant effect upon European Designated Sites.

2) Executive Summary

The existing site is a barn currently used for storage of hay and machinery and therefore has no existing water usage. The proposal is for the conversion of the barn to create 2 new 3-bed houses.

Due to there being no existing water usage, water neutrality cannot be achieved.

Water usage comparison

Existing site water usage (litres/day)	0
Proposed scheme water usage (litres/day)	315.17
Proposed scheme water usage lower than consented scheme	Yes

As shown in the report using low water usage fittings, rainwater harvesting to feed the WCs and washing machines and rainwater collection for external water usage in the proposed scheme, it is possible to offset the proposed scheme water usage.

It is proposed to achieve this by fitting flow regulators to taps and showers, and rainwater harvesting to feed the WCs and washing machine in existing property owned by the applicant south of the proposed site. It is also proposed to provide rainwater harvesting to replace mains water usage for providing water for stock housed on site and for all usage related to the swimming pool on site.

The dwelling to the south of the proposed site is a large 5 bedroomed property.

Water neutrality can therefore be achieved.

Existing dwellings water usage (litres/day)	383.40
Existing dwellings water usage after offsetting (litres/day)	188.40
Reduction in dwelling water usage (litres/day)	195.00
Reduction in agriculture water usage (litres/day)	75.23
Reduction in swimming pool water usage (litres/day)	96.16
Total reduction water usage (litres/day)	366.39
Proposed scheme water usage (litres/day)	315.17
Reduction in water usage greater than proposed scheme water usage (litres/day)	Yes

This report is designed to show the theoretical potential for water neutrality to be achieved based on existing data and proposed design measures, however the design and suitability of greywater recycling and rainwater harvesting systems will need to be carried out by the relevant specialists in these areas.

While this report confirms the theoretical feasibility of greywater recycling and rainwater harvesting systems to achieve the necessary reductions in water consumption, the technical feasibility will need to be confirmed with specialist reports by the relevant professionals.

Appended to this report in Appendix 3 are water bills from 7th February 2019 to the 27th July 2022 (1,265 days) showing a total water consumption for the existing site of 1,844.2m^3 which equates to 1,844,200 litres and therefore **1,457.87 litres/day.**

There are also 30-40 small fruit trees on the orchard which are under an agreement with the wildlife trust. These trees need watering regularly, particularly as the soil is clay. A greenhouse, fruit cages and vegetable garden, all of which need regular watering. The barn contains a gardeners WC and showers for use with the pool, the use of these is sporadic. There are stables and the barn has also been converted as holiday let and ancillary residential use, however as the consumption of these are not able to be individually confirmed they have been omitted from any calculations. They, along with the need to fill the pool annually, do however demonstrate a substantial additional water consumption.

3) Dwelling Water efficiency

In the UK every person uses approximately 150 litres of water a day, whilst consumption in our homes has steadily increased every year by around 1% since 1930 as we enjoy better standards of cleanliness and greater use of water-using appliances.

Increased consumption and a growing number of households has put more pressure on water supplies and it is likely that this problem will worsen as our climate changes.

From April 2010 Part G of the Building Regulations requires new dwellings to limit maximum water usage to 125 litres per person per day. Water efficiency has now become an issue that must be embraced by designers, specifiers and house builders.

What is needed for a water usage calculation?

The calculation method requires the use of water consumption figures provided from manufacturers product details. In order to calculate predicted water usage of a dwelling the following information is collected to determine the consumption of each fitting:

- Whether the dwelling has a low or high-water pressure system.
- Kitchen, utility and other taps – The quantity of taps as well as the flow rates in litres per minute for each tap. Where separate hot and cold taps are provided the flow rate of each is taken to determine the average.
- Baths – The quantity of baths and the capacity to overflow in litres. The flow rates of the bath taps are not required. Jacuzzis are not included in the water efficiency calculation.
- Showers – The quantity of showers and the cold-water flow rate.
- WC's – The quantity of toilets and flush capacity in litres of both single and dual flushes (part and full flush).
- Dishwashers – The water usage in litre per place setting. If no dishwasher is present in the development, then a generic figure of 1.25 litres per place setting is used. This will allow for any future installations.
- Washing machines – The water usage in litre per kilogram of dry load. If no washing machine is present in the development, then a generic figure of 8.17 litres per kilogram of dry load is used. This will allow for any future installations.

External taps are included in Building Regulation calculations at a fixed rate of 5 litres per person per day.

4) Proposed Scheme Water Consumption

The tables below provide a summary of the appliances water usage as well as providing the dwellings overall *'design stage'* water consumption (litres/person/day). This demonstrates that provided the sanitary fittings are specified following the maximum consumptions outlined below a **Total Water Consumption of 95.4 litres / person / day** should be achieved at *'as built'* stage. The value in the tables also includes the 5 litres / person / day required by Building Regulations for external water usage.

Plot 1

Appliance	Qty.	Average Water Usage	
Kitchen/Utility Mixer taps	2	9 litres per minute	
All Other Mixer taps	2	3 litres per minute	
Baths	1	170 capacity in litres	
Showers	2	6 litres per minute	
Dual flush toilets	2	Part (capacity in litres)	Full (capacity in litres)
		3	6
Dishwashers	1	1.25 litre per place setting	
Washing machine	1	8.17 litres per dry kg load	
Total water consumption: 100.4		litres per person per day	

Using water collected by harvesting rainwater to feed the WCs and washing machine this figure can be further reduced to **68.8 litres/person/day**

Using rainwater collection systems i.e. water buts for any excess rainwater the provision for external water usage can also be eliminated.

Total water usage per day, is therefore **63.8 litres/person/day** multiplied by the average occupancy of 2.47 totalling **157.59 litres/day**

Plot 2

Appliance	Qty.	Average Water Usage	
Kitchen/Utility Mixer taps	2	9 litres per minute	
All Other Mixer taps	2	3 litres per minute	
Baths	1	170 capacity in litres	
Showers	2	6 litres per minute	
Dual flush toilets	2	Part (capacity in litres)	Full (capacity in litres)
		3	6
Dishwashers	1	1.25 litre per place setting	
Washing machine	1	8.17 litres per dry kg load	
Total water consumption: 100.4		litres per person per day	

Using water collected by harvesting rainwater to feed the WCs and washing machine this figure can be further reduced to **68.8 litres/person/day**

Using rainwater collection systems i.e. water buts for any excess rainwater the provision for external water usage can also be eliminated.

Total water usage per day, is therefore **63.8 litres/person/day** multiplied by the average occupancy of 2.47 totalling **157.59 litres/day**

The total proposed site water usage is therefore **315.17 litres/day**

It should be noted at this stage that the total water use of 104.86 litres/person/day and the contribution from rainwater of 34.8 litres/person/day shown in the Part G Water Calculator needs to be multiplied by a normalization factor of 0.91 litres/person/day to give a true reflection of the dwellings water consumption.

Average Occupancy

Household size	All categories: Number of bedrooms	1 bedroom	1 bedroom occupants	2 bedrooms	2 bedroom occupants	3 bedrooms	3 bedroom occupants	4 bedrooms	4 bedroom occupants	5 or more bedrooms	5 or more bedroom occupants
All categories: Household size	54,923	5,880		13,053		20,591		11,327		4,072	
1 person in household	15,476	4,258	4,258	5,207	5,207	4,435	4,435	1,247	1,247	329	329
2 people in household	20,234	1,415	2,830	5,302	10,604	7,866	15,732	4,302	8,604	1,349	2,698
3 people in household	8,246	157	471	1,659	4,977	3,760	11,280	1,974	5,922	696	2,088
4 people in household	7,898	37	148	751	3,004	3,513	14,052	2,639	10,556	958	3,832
5 people in household	2,303	9	45	108	540	801	4,005	906	4,530	479	2,395
6 or more people in household	766	4	24	26	156	216	1,296	259	1,554	261	1,566
Total			7,776		24,488		50,800		32,413		12,579
Occupancy rate			**1.32**		**1.88**		**2.47**		**2.86**		**3.09**

5) Existing Dwellings Water Consumption

The applicant owns the property to the south-east of the application site. The address of this property is:

Grainingfold Farmhouse
Horsham Road
Five Oaks
RH14 9AT

The applicant proposes to incorporate water saving measures to this property in order to achieve water neutrality. This property is referred to in this report as "The mitigation property".

For clarity, the mitigation property is shown highlighted in the image below in blue, with the application site shown in red.

The mitigation property comprises a 5 bedroom / 5 bathroom residential property. The property is occupied full time by three persons with occasional guests staying, for the purpose of these calculations, figures have been based on the full-time occupancy of three persons.

To the south-east of the house is a converted Sussex barn which is approved for holiday let and ancillary residential use.



The mitigation property also includes a stable building, an external swimming pool and a pool house.

The tables below provide a summary of the appliances water usage as well as providing the dwellings overall water consumption (litres/person/day). This demonstrates that a Total Water Consumption is currently being achieved. The value in the tables also includes the 5 litres / person / day required by Building Regulations for external water usage.

House

Appliance	Qty.	Average Water Usage	
Kitchen/Utility Mixer taps	1	6.75 litres per minute	
All Other Mixer taps	7	6.43 litres per minute	
Baths	2	170 capacity in litres	
Showers	5	11.62 litres per minute	
Dual flush toilets	6	Part (capacity in litres)	Full (capacity in litres)
		3	6
Dishwashers	1	1.25 litre per place setting	
Washing machine	1	8.7 litres per dry kg load	
Total water consumption: 127.8		litres per person per day	

Total water usage per day, is therefore **127.8 litres/person/day** multiplied by the occupancy of 3 totalling **383.4 litres/day**

It should be noted at this stage that the total water use of 134.98 litres/person/day shown in the Part G Water Calculator needs to be multiplied by a normalization factor of 0.91 litres/person/day to give a true reflection of the dwellings water consumption.

6) Existing Dwellings Water Consumption after water efficient fittings have been added

House

Appliance	Qty.	Average Water Usage	
Kitchen/Utility Mixer taps	1	6.75 litres per minute	
All Other Mixer taps	7	3 litres per minute	
Baths	2	170 capacity in litres	
Showers	5	6 litres per minute	
Dual flush toilets	6	Part (capacity in litres)	Full (capacity in litres)
		3	6
Dishwashers	1	1.25 litre per place setting	
Washing machine	1	8.7 litres per dry kg load	
Total water consumption: 100.5		litres per person per day	

Using water collected by harvesting rainwater to feed the WCs and washing machine this figure can be further reduced to **67.9 litres/person/day**.

Using rainwater collection systems i.e. water buts for rainwater the provision for external water usage can be eliminated.

Total water usage per day, is therefore **62.8 litres/person/day** multiplied by the occupancy of 3 totalling **188.4 litres/day**

It should be noted at this stage that the total water use of 104.98 litres/person/day and the contribution from rainwater of 35.91 litres/person/day shown in the Part G Water Calculator needs to be multiplied by a normalization factor of 0.91 litres/person/day to give a true reflection of the dwellings water consumption.

The total existing dwellings water usage after water efficient fittings have been added is therefore **188.4 litres/day**.

7) Existing Site Water usage

The land amounts to around 40 acres of grazing land. The applicants have 5 sheep of their own grazing on the land permanently. In addition, they rent the land to a local farmer for additional grazing and the movement of sheep has to be documented for DEFRA so numbers can be evidenced.

The figures are as follows

- 16 Feb 2018 - 16 sheep purchased and on the land.
- April 2018 - 20 lambs born.

So total of 36 sheep on land

Until

- 11/10/2018 - Less 2 Total 16 ewes 18 lambs
- 16/01/2019 - Less 5 Total 16 ewes 13 lambs
- 27/02/2019 - Less 13 Total 16 ewes
- April 2019 - born 15 Total 16 ewes 15 lambs
- 13/05/2020 - Less 7 Total 24 ewes
- 18/06/2020 - Less 19Total 5 ewes
- 05/07/2021 - plus 21 Total 26 ewes
- 20/08/2021 - less 21 Total 5 ewes
- 23/10/2021 - plus 18 Total 23 ewes
- 03/11/2021 - plus 1 Total 24 ewes
- 08/02/2022 - less 19 Total 5 ewes

To calculate the water usage of the existing site the average water usage of cattle was taken from a Defra report by King, J., Tiffin, D., Drakes, D. & Smith, K. 2006. Water use in agriculture: establishing a baseline. Report for Defra Project WU0102. (http://randd.defra.gov.uk/Document.aspx?Document=WU0102_4274_FRP.doc)

The report states that the overall drinking requirements for an ewe is **4.5 litres/animal/day** and for lambs **1.68 litres/animal/day**.

Drinking water requirements for sheep.

Animal	Water volume (L/day/animal)	Total volume (L/animal/year)	Other – dipping (L/animal/year)
Ewe	4.5	1,643	4.5
Ram	3.3	1204.5	4.5
Lamb	1.68	613.5	0.9

To calculate the water consumption of the sheep housed on the site the table below has been used. This confirms that from between the 16th of February 2018 and the 8th of February 2022 an average **75.23 litres/day** were consumed.

	Ewes	Lambs	Days	Drinking water	Ewe	Lamb		Total
16/02/2018	16		73		4.5	1.68		5256
30/04/2018	16	20	164		4.5	1.68		17318.4
11/10/2018	16	18	97		4.5	1.68		9917.28
16/01/2019	16	13	42		4.5	1.68		3941.28
27/02/2019	16		31		4.5	1.68		2232
30/04/2019	16	15	365		4.5	1.68		35478
30/04/2020	31		13		4.5	1.68		1813.5
13/05/2020	24		36		4.5	1.68		3888
18/06/2020	5		382		4.5	1.68		8595
05/07/2021	26		46		4.5	1.68		5382
20/08/2021	5		64		4.5	1.68		1440
23/10/2021	23		12		4.5	1.68		1242
03/11/2021	24		97		4.5	1.68		10476
08/02/2022	5							
		Total	1422				Total	106979.46
							Average	75.23

It is proposed to provide 100% of the drinking water to the sheep from collected rainwater, therefore a further **75.23 litres/day** can be offset.

The site also houses a swimming pool of approximately 9m long x 5m wide x 1.2m deep with a volume of 54m^3. This equates to 54,000 litres of water.

The pool is flushed and topped up every 2 weeks during the Spring and Summer months. It fills at the rate of 15mm every hour so a typical top up take approximately 4 hours. Therefore, each time the pool is flushed approximately 2,700 litres of water are replaced. Assuming this takes place from April to September which is 26 weeks approximately 35,100 litres of water is consumed as follows:

2,700 x 26/2 = 35,100

The daily consumption is therefore **96.16 Litres/day**.

35,100/365 = 96.16

It is proposed to provide 100% of the water required for topping up the swimming pool from collected rainwater, therefore a further **96.16 litres/day** can be offset.

The total water that can be offset from the site is therefore 195 + 75.23 + 96.16 = **366.39 litres/day**

Appendix 1: Water Calculations Outputs

WAT 1 - Calculator
Code for Sustainable Homes

Site Information	
Site Name	303736
Reg Number	Plot 1
Street 1	Grainingfold Farm
Street 2	Five Oaks
Area	
Town or City	Billingshurst
Post Code	

Installation Type	Average Capacity/Flow Rate	Litres/Person/Day
Single Flush WC's	0	0
Dual Flush WC's	3.99	17.64
All WC's	3.99	17.64
Kitchen/Utility Room Taps	9	14.32
Other Taps	3	6.32
Baths	170	18.7
Showers	6	26.22
Dishwashers	1.25	4.5
Washing Machines	8.17	17.16
Water Softener		
Waste Disposal Unit	Not Present	0
Total Water Use	104.86 Litres/Person/Day	
Contribution from Rain Water	34.8 Litres/Person/Day	
Contribution from Grey Water	0 Litres/Person/Day	
Normalisation Factor	0.91 Litres/Person/Day	

Code for Sustainable Homes - Consumptions & Credits	
Water Consumption (Code for Sustainable Homes)	63.8 Litres/Person/Day
Credits Scored	5

Building Regulations 2000 AD Part G (2010 Ed) - Consumption	
External Water Use	5 Litres/Person/Day
Water Consumption (Building Regulation 17 K)	68.8 Litres/Person/Day

Kitchen/Utility Room Taps						
Description	Flow Rate	Qty	Total Water	Grey Water	Rain Water	Net Water
Default	9	2	18	0	0	18
Total Litres/Person/Day Gross						14.32
Total Litres/Person/Day Gross						14.32

Other Taps						
Description	Flow Rate	Qty	Total Water	Grey Water	Rain Water	Net Water
Default	3	2	6	0	0	6
Total Litres/Person/Day Gross						6.32
Total Litres/Person/Day Gross						6.32

Baths						
Description	Capacity	Qty	Total Water	Grey Water	Rain Water	Net Water
Default	170	1	170	0	0	170
Total Litres/Person/Day Gross						18.7
Total Litres/Person/Day Gross						18.7

Showers						
Description	Flow Rate	Qty	Total Water	Grey Water	Rain Water	Net Water
Default	6	2	12	0	0	12
Total Litres/Person/Day Gross						26.22
Total Litres/Person/Day Gross						26.22

Washing Machines						
Description	L/Kg Dry Load	Qty	Total Water	Grey Water	Rain Water	Net Water
Default	8.17	1	8.17		8.17	0
Total Litres/Person/Day Gross						17.16
Total Litres/Person/Day Gross						0

Dishwashers						
Description	L/Place Setting	Qty	Total Water	Grey Water	Rain Water	Net Water
Default	1.25	1	1.25	0	0	1.25
Total Litres/Person/Day Gross						4.5
Total Litres/Person/Day Gross						4.5

Single Flush WC's						
Description	Flush Volume	Qty	Total Water	Grey Water	Rain Water	Net Water
Total Litres/Person/Day Gross						0
Total Litres/Person/Day Gross						0

Dual Flush WC's						
Description	Flush Vol (P/F)	Qty	Total Water	Grey Water	Rain Water	Net Water
Default	3/6	2	7.98		7.98	-7.98
Total Litres/Person/Day Gross						17.64
Total Litres/Person/Day Gross						0

Ion Exchange Water Softener	
% of Total Capacity Used Per	
Water Consumed Per Regeneration	
Average Regeneration Cycles Per Day	
Occupants Served by the System	
Water Consumed Beyond 4%	
Water Consumed Beyond 4%	

Rain Water Collection	
Collection Area	78.4
Yield Co-Efficient	0.9
Hydraulic Filter Efficiency	0.9
Average Rainfall	742
Daily Rain Water Collection	129.1
Number of Occupants	2.47
Daily Rain Water Per Person	52.27

WAT 1 - Calculator
Code for Sustainable Homes

Site Information	
Site Name	303736
Reg Number	Plot 2
Street 1	Grainingfold Farm
Street 2	Five Oaks
Area	
Town or City	Billingshurst
Post Code	

Installation Type	Average Capacity/Flow Rate	Litres/Person/Day
Single Flush WC's	0	0
Dual Flush WC's	3.99	17.64
All WC's	3.99	17.64
Kitchen/Utility Room Taps	9	14.32
Other Taps	3	6.32
Baths	170	18.7
Showers	6	26.22
Dishwashers	1.25	4.5
Washing Machines	8.17	17.16
Water Softener		
Waste Disposal Unit	Not Present	0
Total Water Use	104.86 Litres/Person/Day	
Contribution from Rain Water	34.8 Litres/Person/Day	
Contribution from Grey Water	0 Litres/Person/Day	
Normalisation Factor	0.91 Litres/Person/Day	

Code for Sustainable Homes - Consumptions & Credits	
Water Consumption (Code for Sustainable Homes)	63.8 Litres/Person/Day
Credits Scored	5

Building Regulations 2000 AD Part G (2010 Ed) - Consumption	
External Water Use	5 Litres/Person/Day
Water Consumption (Building Regulation 17 K)	68.8 Litres/Person/Day

Kitchen/Utility Room Taps						
Description	Flow Rate	Qty	Total Water	Grey Water	Rain Water	Net Water
Default	9	2	18	0	0	18
Total Litres/Person/Day Gross						14.32
Total Litres/Person/Day Gross						14.32

Other Taps						
Description	Flow Rate	Qty	Total Water	Grey Water	Rain Water	Net Water
Default	3	2	6	0	0	6
Total Litres/Person/Day Gross						6.32
Total Litres/Person/Day Gross						6.32

Baths						
Description	Capacity	Qty	Total Water	Grey Water	Rain Water	Net Water
Default	170	1	170	0	0	170
Total Litres/Person/Day Gross						18.7
Total Litres/Person/Day Gross						18.7

Showers						
Description	Flow Rate	Qty	Total Water	Grey Water	Rain Water	Net Water
Default	6	2	12	0	0	12
Total Litres/Person/Day Gross						26.22
Total Litres/Person/Day Gross						26.22

Washing Machines						
Description	L/Kg Dry Load	Qty	Total Water	Grey Water	Rain Water	Net Water
Default	8.17	1	8.17		8.17	0
Total Litres/Person/Day Gross						17.16
Total Litres/Person/Day Gross						0

Dishwashers						
Description	L/Place Setting	Qty	Total Water	Grey Water	Rain Water	Net Water
Default	1.25	1	1.25	0	0	1.25
Total Litres/Person/Day Gross						4.5
Total Litres/Person/Day Gross						4.5

Single Flush WC's						
Description	Flush Volume	Qty	Total Water	Grey Water	Rain Water	Net Water
Total Litres/Person/Day Gross						0
Total Litres/Person/Day Gross						0

Dual Flush WC's						
Description	Flush Vol (P/F)	Qty	Total Water	Grey Water	Rain Water	Net Water
Default	3/6	2	7.98		7.98	-7.98
Total Litres/Person/Day Gross						17.64
Total Litres/Person/Day Gross						0

Ion Exchange Water Softener	
% of Total Capacity Used Per	
Water Consumed Per Regeneration	
Average Regeneration Cycles Per Day	
Occupants Served by the System	
Water Consumed Beyond 4%	
Water Consumed Beyond 4%	

Rain Water Collection	
Collection Area	78.4
Yield Co-Efficient	0.9
Hydraulic Filter Efficiency	0.9
Average Rainfall	742
Daily Rain Water Collection	129.1
Number of Occupants	2.47
Daily Rain Water Per Person	52.27

WAT 1 - Calculator
Code for Sustainable Homes

Site Information	
Site Name	303736
Reg Number	Existing House
Street 1	Grainingfold Farm
Street 2	Five Oaks
Area	
Town or City	Billingshurst
Post Code	

Installation Type	Average Capacity/Flow Rate	Litres/Person/Day
Single Flush WC's	0	0
Dual Flush WC's	3.99	17.64
All WC's	3.99	17.64
Kitchen/Utility Room Taps	6.75	13.33
Other Taps	6.43	11.74
Baths	170	18.7
Showers	11.62	50.8
Dishwashers	1.25	4.5
Washing Machines	8.7	18.27
Water Softener		
Waste Disposal Unit	Not Present	0
Total Water Use	134.98 Litres/Person/Day	
Contribution from Rain Water	0 Litres/Person/Day	
Contribution from Grey Water	0 Litres/Person/Day	
Normalisation Factor	0.91 Litres/Person/Day	

Code for Sustainable Homes - Consumptions & Credits	
Water Consumption (Code for Sustainable Homes)	122.8 Litres/Person/Day
Credits Scored	0

Building Regulations 2000 AD Part G (2010 Ed) - Consumption	
External Water Use	5 Litres/Person/Day
Water Consumption (Building Regulation 17 K)	127.8 Litres/Person/Day

Kitchen/Utility Room Taps						
Description	Flow Rate	Qty	Total Water	Grey Water	Rain Water	Net Water
Franke Mixer	4.5	1	4.5	0	0	4.5
SMEG mixer tap	9	1	9	0	0	9
Total Litres/Person/Day Gross						13.33
Total Litres/Person/Day Gross						13.33

Other Taps						
Description	Flow Rate	Qty	Total Water	Grey Water	Rain Water	Net Water
Hansgrohe Mixer	6	6	36	0	0	36
Hansgrohe mixer	9	1	9	0	0	9
Total Litres/Person/Day Gross						11.74
Total Litres/Person/Day Gross						11.74

Baths						
Description	Capacity	Qty	Total Water	Grey Water	Rain Water	Net Water
Villeroy & Boch	170	2	340	0	0	340
Total Litres/Person/Day Gross						18.7
Total Litres/Person/Day Gross						18.7

Showers						
Description	Flow Rate	Qty	Total Water	Grey Water	Rain Water	Net Water
Hansgrohe Raindance	9	3	27	0	0	27
Hansgrohe Axor	16	2	32	0	0	32
Vado handset	10	2	20	0	0	20
Hansgrohe Handset	14	1	14	0	0	14
Total Litres/Person/Day Gross						50.8
Total Litres/Person/Day Gross						50.8

Washing Machines						
Description	L/Kg Dry Load	Qty	Total Water	Grey Water	Rain Water	Net Water
Bosch Logixx8	8.7	2	17.4			17.4
Siemens S12-49	8.7	1	8.7			8.7
Total Litres/Person/Day Gross						18.27
Total Litres/Person/Day Gross						18.27

Dishwashers						
Description	L/Place Setting	Qty	Total Water	Grey Water	Rain Water	Net Water
Bosch	1.25	1	1.25	0	0	1.25
Total Litres/Person/Day Gross						4.5
Total Litres/Person/Day Gross						4.5

Single Flush WC's						
Description	Flush Volume	Qty	Total Water	Grey Water	Rain Water	Net Water
Total Litres/Person/Day Gross						0
Total Litres/Person/Day Gross						0

Dual Flush WC's						
Description	Flush Vol (P/F)	Qty	Total Water	Grey Water	Rain Water	Net Water
Villeroy & Boch	3/6	1	3.99			0
Duravit Dual Flosu	3/6	3	11.97			0
Gebarit Dual	3/6	1	3.99			0
Roca Dual	3/6	1	3.99			0
Total Litres/Person/Day Gross						17.64
Total Litres/Person/Day Gross						17.64

Ion Exchange Water Softener	
% of Total Capacity Used Per	
Water Consumed Per Regeneration	
Average Regeneration Cycles Per Day	
Occupants Served by the System	
Water Consumed Beyond 4%	
Water Consumed Beyond 4%	

Rain Water Collection	
Collection Area	
Yield Co-Efficient	
Hydraulic Filter Efficiency	
Average Rainfall	
Daily Rain Water Collection	
Number of Occupants	
Daily Rain Water Per Person	

WAT 1 - Calculator
Code for Sustainable Homes

Site Information	
Site Name	303736
Reg Number	Existing House Offset
Street 1	Grainingfold Farm
Street 2	Five Oaks
Area	
Town or City	Billingshurst
Post Code	

Installation Type	Average Capacity/Flow Rate	Litres/Person/Day
Single Flush WC's	0	0
Dual Flush WC's	3.99	17.64
All WC's	3.99	17.64
Kitchen/Utility Room Taps	6.75	13.33
Other Taps	3	6.32
Baths	170	18.7
Showers	6	26.22
Dishwashers	1.25	4.5
Washing Machines	8.7	18.27
Water Softener		
Waste Disposal Unit	Not Present	0
Total Water Use	104.98 Litres/Person/Day	
Contribution from Rain Water	35.91 Litres/Person/Day	
Contribution from Grey Water	0 Litres/Person/Day	
Normalisation Factor	0.91 Litres/Person/Day	

Code for Sustainable Homes - Consumptions & Credits	
Water Consumption (Code for Sustainable Homes)	62.8 Litres/Person/Day
Credits Scored	5

Building Regulations 2000 AD Part G (2010 Ed) - Consumption	
External Water Use	5 Litres/Person/Day
Water Consumption (Building Regulation 17 K)	67.9 Litres/Person/Day

Kitchen/Utility Room Taps						
Description	Flow Rate	Qty	Total Water	Grey Water	Rain Water	Net Water
Franke Mixer	4.5	1	4.5	0	0	4.5
SMEG mixer tap	9	1	9	0	0	9
Total Litres/Person/Day Gross						13.33
Total Litres/Person/Day Gross						13.33

Other Taps						
Description	Flow Rate	Qty	Total Water	Grey Water	Rain Water	Net Water
Hansgrohe Mixer - with flow regulator	3	6	18	0	0	18
Hansgrohe mixer - with flow regulator	3	1	3	0	0	3
Total Litres/Person/Day Gross						6.32
Total Litres/Person/Day Gross						6.32

Baths						
Description	Capacity	Qty	Total Water	Grey Water	Rain Water	Net Water
Villeroy & Boch	170	2	340	0	0	340
Total Litres/Person/Day Gross						18.7
Total Litres/Person/Day Gross						18.7

Showers						
Description	Flow Rate	Qty	Total Water	Grey Water	Rain Water	Net Water
Hansgrohe Raindance - with flow regulator	6	3	18	0	0	18
Hansgrohe Axor - with flow regulator	6	2	12	0	0	12
Vado handset - with flow regulator	6	2	12	0	0	12
Hansgrohe Handset - with flow regulator	6	1	6	0	0	6
Total Litres/Person/Day Gross						26.22
Total Litres/Person/Day Gross						26.22

Washing Machines						
Description	L/Kg Dry Load	Qty	Total Water	Grey Water	Rain Water	Net Water
Bosch Logixx8	8.7	2	17.4		17.4	0
Siemens S12-49	8.7	1	8.7		8.7	0
Total Litres/Person/Day Gross						18.27
Total Litres/Person/Day Gross						0

Dishwashers						
Description	L/Place Setting	Qty	Total Water	Grey Water	Rain Water	Net Water
Bosch	1.25	1	1.25	0	0	1.25
Total Litres/Person/Day Gross						4.5
Total Litres/Person/Day Gross						4.5

Single Flush WC's						
Description	Flush Volume	Qty	Total Water	Grey Water	Rain Water	Net Water
Total Litres/Person/Day Gross						0
Total Litres/Person/Day Gross						0

Dual Flush WC's						
Description	Flush Vol (P/F)	Qty	Total Water	Grey Water	Rain Water	Net Water
Villeroy & Boch	3/6	1	3.99		3.99	-3.99
Duravit Dual Flosu	3/6	3	11.97		11.97	-11.97
Gebarit Dual	3/6	1	3.99		3.99	-3.99
Roca Dual	3/6	1	3.99		3.99	-3.99
Total Litres/Person/Day Gross						17.64
Total Litres/Person/Day Gross						0

Ion Exchange Water Softener	
% of Total Capacity Used Per	
Water Consumed Per Regeneration	
Average Regeneration Cycles Per Day	
Occupants Served by the System	
Water Consumed Beyond 4%	
Water Consumed Beyond 4%	

Rain Water Collection	
Collection Area	300
Yield Co-Efficient	0.9
Hydraulic Filter Efficiency	0.9
Average Rainfall	742
Daily Rain Water Collection	493.99
Number of Occupants	3
Daily Rain Water Per Person	164.66

Appendix 2: Schedule of fittings in the mitigation property

Master bedroom

Hansgrohe mixer tap – flow rate 6 litres / minute

Hansgrohe Axor shower – flow rate 16 litres / minute

Vado handset – flow rate 10 litres / minute

Geberit Dual flush toilet – flush volume (full flush / half flush) 6/3 litres

Bath – Villeroy and Boch – capacity 170 litres







Bedroom 2

Hansgrohe mixer tap – flow rate 6 litres / minute

Hansgrohe shower – flow rate 16 litres / minute

Villeroy and Boch Dual flush toilet – flush volume (full flush / half flush) 6/3 litres

Bath – Villeroy and Boch – capacity 170 litres





Bedroom 3

Hansgrohe mixer tap – flow rate 6 litres / minute

Hansgrohe Raindance shower – flow rate 9 litres / minute

Hansgrohe handset – flow rate 14 litres / minute

Duravit Dual flush toilet – flush volume (full flush / half flush) 6/3 litres

Bidet – Hansgrohe mixer tap – flow rate 6 litres / minute







Bedroom 4

Hansgrohe mixer tap – flow rate 6 litres / minute

Hansgrohe Raindance shower – flow rate 9 litres / minute

Duravit Dual flush toilet – flush volume (full flush / half flush) 6/3 litres





Bedroom 5

Hansgrohe mixer tap – flow rate 6 litres / minute

Hansgrohe Raindance shower – flow rate 9 litres / minute

Vado handset – flow rate 10 litres / minute

Roca Dual flush toilet – flush volume (full flush / half flush) 6/3 litres





Utility

Smeg mixer tap – flow rate 9 litres / minute

Washing machine 1 - Bosch logixx 8 washing machine- 8.7 litres / Kg dry load

Washing machine 1 (dog wash) - Bosch logixx 8 washing machine- 8.7 litres / Kg dry load

Washing machine 1 - Siemens S12-49 washing machine- 8.7 litres / Kg dry load





Kitchen

Franke mixer tap – flow rate 4.5 litres / minute

Bosch series 2 dishwasher – 1.25 litres / place setting




FAIRY
Carex

WC

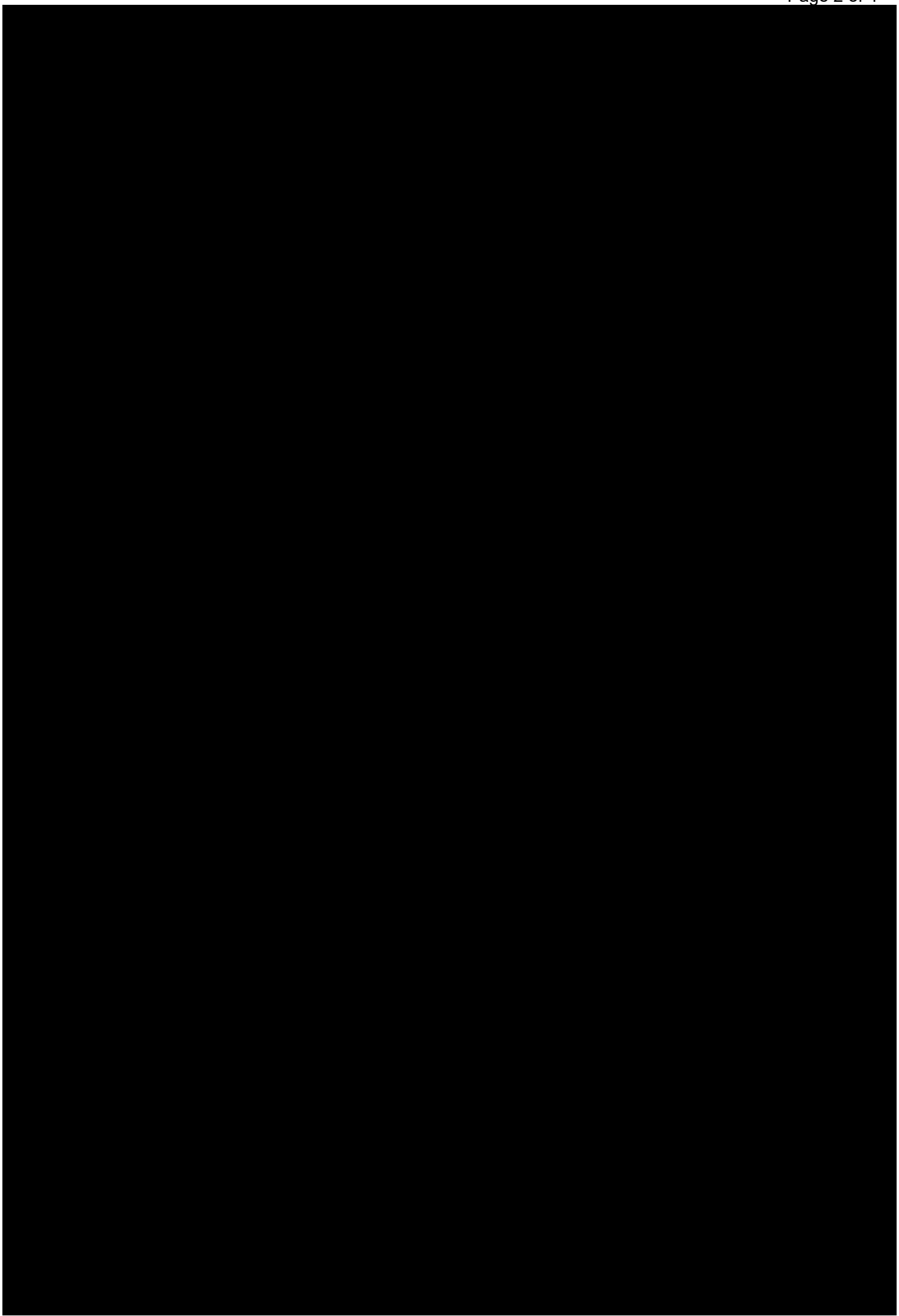
Hansgrohe mixer tap – flow rate 9 litres / minute

Duravit Dual flush toilet – flush volume (full flush / half flush) 6/3 litres





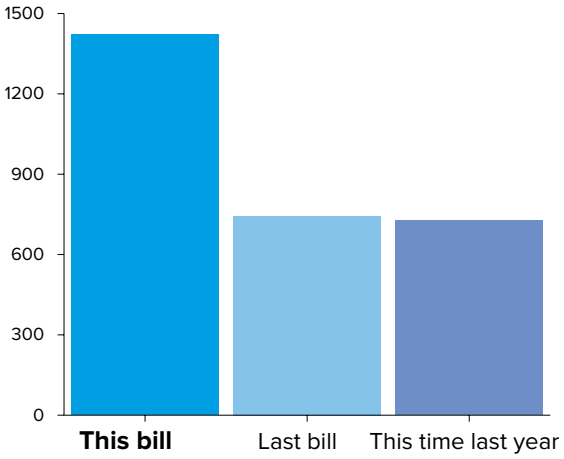
Appendix 3: Water Meter Readings



Your water use

Over the last six months your household used an average of 1422 litres a day

You're using £2.02 of water a day on average.



Why is my bill higher than usual?

Your water use may have gone up for a number of reasons, for example:

- Are more people living in your home?
- Have you been spending more time at home than usual?
- Have you had problems such as a dripping tap or leaking washing machine?
- Have you carried out building work, repairs or home improvements?
- Have you used your washing machine more than usual?
- Have you regularly used a hosepipe or sprinkler?
- Have you regularly filled up a paddling pool?
- Have you installed appliances or equipment that uses a lot of water?

If none of the above explains why your water use has gone up, call us on **0330 303 0277**. We'll try to help you work out why your bill is higher than usual.

More information

Struggling to pay?

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0800 027 0363

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southernwater.co.uk/account/help-paying-your-bill

Moving home?

Please give us at least two days' notice before you move, so we can read your meter.

Alternatively, you can check your meter on the day you leave the property and submit your reading here:

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CCW

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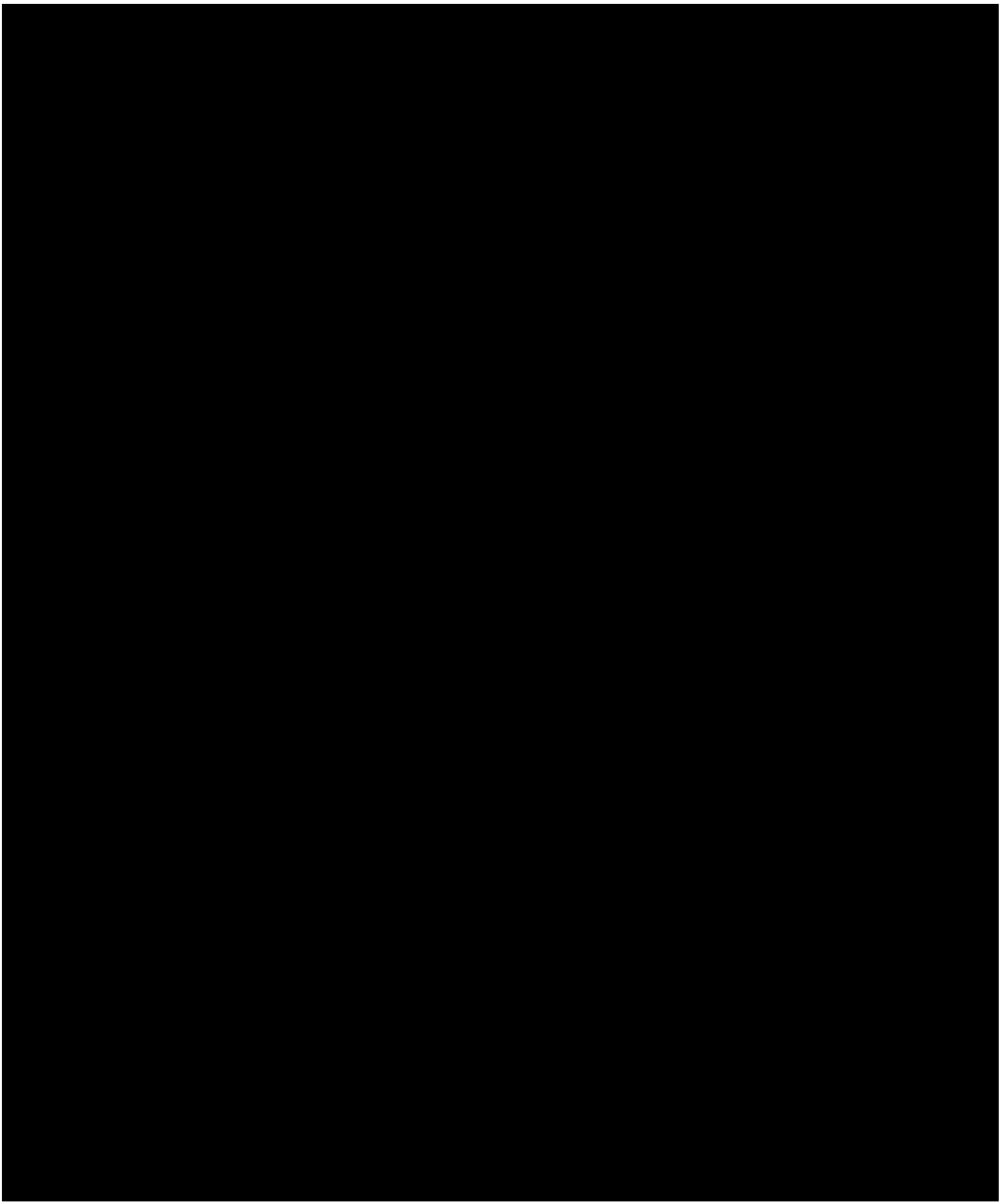

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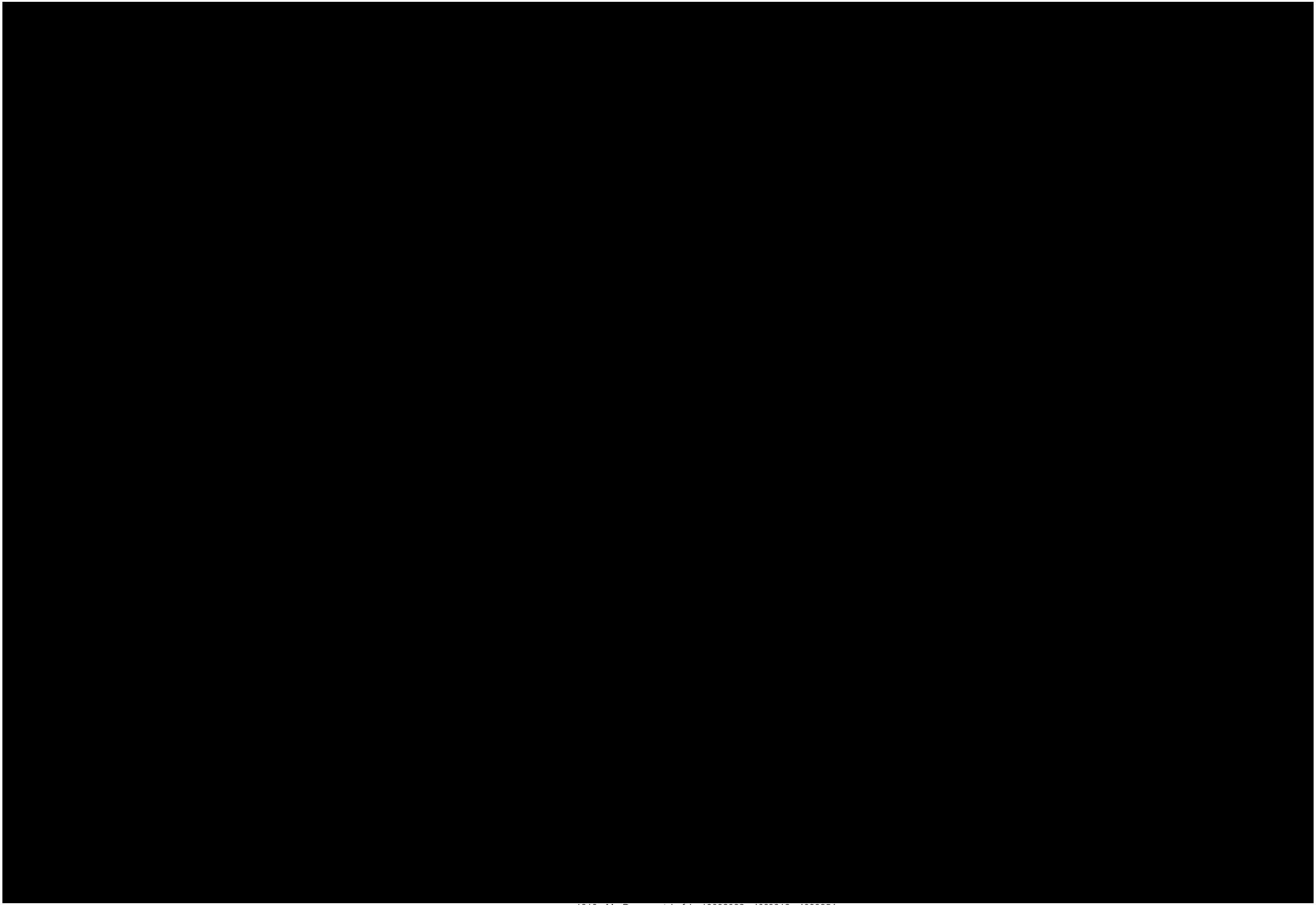

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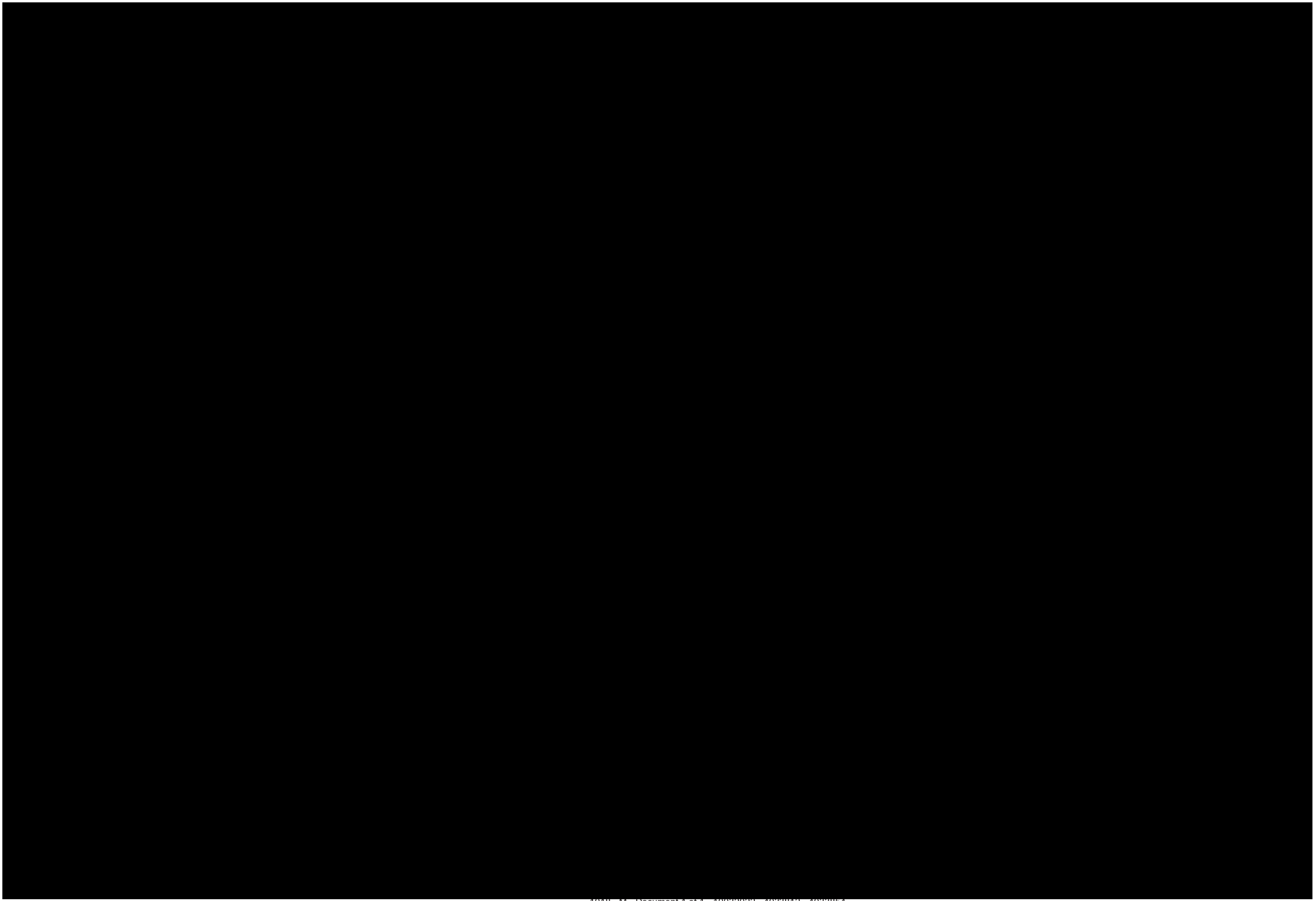

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24 hours 7 days a week

We value your privacy

We're committed to safeguarding your information too, which we use:
- to offer water and wastewater goods and services
- to track trends and create customer profiles
- with credit references agencies for credit management purposes
- with neighbouring water companies to complete the billing process.

For more about what we do visit southernwater.co.uk/privacy

If we get something wrong

Our Code of Practice sets out our standards of service and what we'll do if we fail to meet them, including the amount of compensation we'll pay you. For more information visit southernwater.co.uk/cop

Complaints

If you have a complaint or an ongoing problem with our service, we want to know so we can put things right. Please call:
0330 303 0277

If you've made a complaint to us and are still unhappy, you can get free independent advice from the **Consumer Council for Water** by calling **0300 034 2222** or visiting **ccwater.org.uk.**

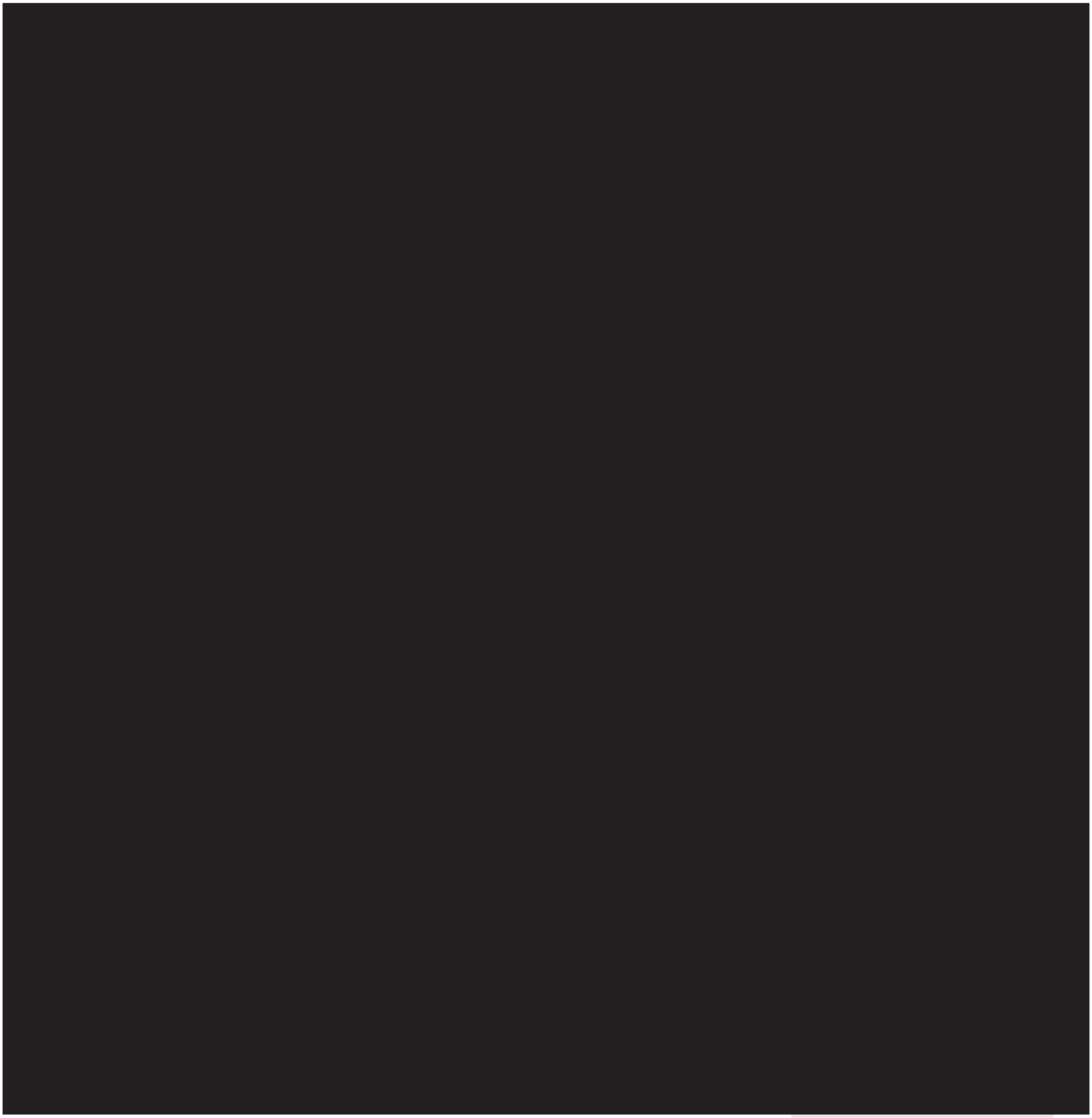
If Southern Water has registered a default on your Consumer Credit File, the charges from this bill will be added to the total amount outstanding. We will have sent you previous correspondence to advise you of our default process.

Southern Water Services Ltd,
Registered office, Southern House,
Yeoman Road, Worthing, BN13 3NX.
Registered in England No: 2366670
VAT Reg No: 813 0378 56

from Southern Water | Introducing HomeServe

Plumbing & Drainage Plus
Marketing promotion from Southern Water

Sold, arranged and administered by HomeServe.
Underwritten by Aviva Insurance Limited.



Don't want to receive any more marketing from Southern Water? Ring us on 0330 303 0277. To find out how else Southern Water uses information about you, visit https://www.southernwater.co.uk/privacy.

*1 In some cases, the water supply pipe responsibility may be outside the property boundary or shared with neighbouring properties.
*2 BCIS Research, September 2021 (prices include labour, parts, call outs and VAT). *3 Price includes any applicable Insurance Premium Tax and is subject to any inflation and tax rate changes. • Southern Water Services Ltd, Registered Office: Southern House, Yeoman Road, Worthing, BN13 3NX. Registered in England No. 2366670 • Southern Water Services Limited is an appointed representative of HomeServe Membership Limited, which is authorised and regulated by the Financial Conduct Authority (FCA) for general insurance and credit broking activities under firm reference number 312518 • HomeServe Membership Limited, Registered Office: Cable Drive, Walsall, WS2 7BN. Registered in England and Wales number 2770612. • HomeServe reserves the right to withdraw this promotion at any time • Diagrams for illustrative purposes only • Information correct as of May 2022.

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Remove the stress and cost of unexpected plumbing and drainage problems...

Nobody wants the inconvenience associated with finding a plumber in a hurry, then paying out for parts, labour and VAT. The diagram below shows the typical repair costs for a range of problems covered by Plumbing & Drainage Plus. With this comprehensive cover all you'd need to pay is the first £30 excess of each claim and HomeServe would take care of the rest. So, let them fix your plumbing problems no matter how big or small.



Repair a leaking toilet seal or joint
£137



Drain down and isolate a leaking cold water tank
£127



Cut out and replace 2m of exposed copper pipework
£285



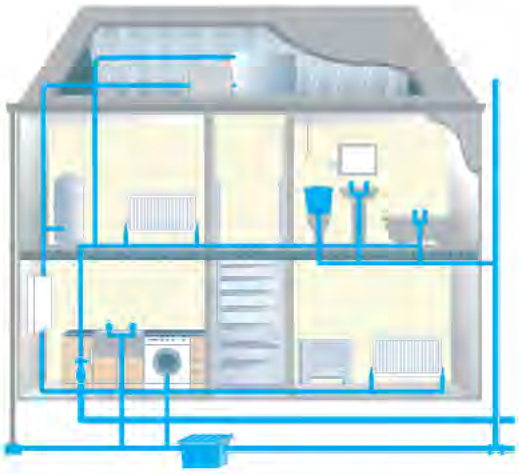
Unblock private drains
£296



Locate, excavate and repair a water supply pipe leak
£548



Replace a tap
£180



Covered areas

BCIS Research, September 2021 (prices include labour, parts, call out charges and VAT).

Questions & Answers

What am I responsible for?
Shared drains within property boundaries are usually Southern Water's responsibility. Water supply pipes are generally the owner's responsibility up to, and in some cases, beyond the property boundary.

What should I know about this cover?
What's covered: Plumbing & Drainage Plus includes cover for major problems such as water supply pipe leaks, burst pipes, blocked drains and a leaking or seized internal stop tap. Cover also includes minor problems, such as blocked toilets, leaking overflow pipes, blocked sinks and dripping or seized taps.

What's not covered: The main exclusions are a boiler breakdown that leaves you without heating or hot water, guttering, soakaways, shared drains or drains or pipes you're not responsible for, and mixer and digital showers.

What can I expect from a repair?
Your repair will be carried out by HomeServe's expert plumbers, with most repairs guaranteed for one year.

Who is HomeServe?
They're trusted Home Experts who are on hand in your local area, ready to help with a range of home emergencies and repairs, for plumbing, drainage, electrics, heating and much more.

About Southern Water's Leak Repair Service
We offer up to one hour's free leak detection where water is not obviously leaking above the ground. We cannot guarantee to find the source of the leak but we will ensure that we tell you the results of our detection work. We will offer assistance for customers who are on our social tariffs, on our special needs register or on certain means tested benefits. The exact help will be determined by the length and position of the supply pipe.
For full details visit: southernwater.co.uk/leaks-at-your-home

Important Information

If this cover meets your needs and you choose to take out cover:

- There is a 28 day exclusion period before you can make a claim, so you'll be covered for 11 months in the first year.
- If you cancel within the first 28 days, you'll receive a full refund. If you cancel after 28 days and have not made a claim you'll receive a refund less an amount for the number of days you have had cover. If you've made a claim, you'll be required to pay any remaining payments due for the term of the policy.
- Your cover will automatically renew next year but you'll receive a reminder with full details around four weeks before. If you choose not to renew, simply get in touch with HomeServe and your direct debit will be cancelled so no further payment will be taken.
- This first year price is only available to new HomeServe customers who haven't previously held cover for their plumbing, drainage or water supply pipe. But don't worry, if you have previously been a HomeServe customer you can learn more about offers for you by giving them a call on 0330 0247 240.
- **If you choose to continue into your second year, the expected price for customers who haven't made a claim is £13.32 a month, which is £159.84 for the year.**
- Please note, any information you provide will be held by HomeServe.

To apply, visit **offer.homeserve.com/SOEBP23A** or call HomeServe on **0330 0247 240**, quoting **SOEBP23A**.

Please note, any information you provide will be held by HomeServe. Lines open weekdays: 8am 8pm, Sat: 8am 4pm and Sun: 10am 4pm. Calls may be recorded for quality control and training purposes. Calls to 03 numbers will cost you no more than 01 or 02 numbers, charges may vary depending on your network provider. Calls to 03 numbers will be part of inclusive minute plans for landlines and mobiles.

This information can be supplied in large print, braille or audio on request.