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60 Newman Street London W1T 3DA	Kiln Place Plot 2 Existing Discharge rates	
Date 17/09/2014 File KP_PLOT 6.MDX	Designed by GI Checked by GI	

Micro Drainage

Network 2013.1.1

1 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Existing

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 2.000
 Hot Start Level (mm) 0 Inlet Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 1 Number of Offline Controls 0 Number of Time/Area Diagrams 0
 Number of Online Controls 0 Number of Storage Structures 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.438
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 21.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0
 Analysis Timestep 2.5 Second Increment (Extended)
 DTS Status ON
 DVD Status OFF
 Inertia Status OFF

Profile(s) Summer and Winter
 Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
 Return Period(s) (years) 1, 30, 100
 Climate Change (%) 0, 0, 0

PN	Storm	Return Period	Climate Change	First X Surchage	First Y Flood	First Z Overflow	O/F Act.	Lvl Exc.
E1.000	15 Winter	1	0%					
E2.000	120 Winter	1	0%					
E1.001	15 Winter	1	0%					

PN	US/MH Name	Water		Flooded		Pipe		
		Level (m)	Surch'd Depth (m)	Volume (m ³)	Flow / Cap.	O'flow (l/s)	Flow (l/s)	Status
E1.000	E1	32.015	-0.135	0.000	0.02	0.0	0.3	OK
E2.000	E2	31.000	-0.150	0.000	0.00	0.0	0.0	OK
E1.001	E2	30.611	-0.135	0.000	0.02	0.0	0.3	OK

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Input Hydrograph Manhole E2, DS/PN E1.001 (Existing) 15 minute 1 year Winter I+0% Input Hydrograph Type: FSR Dynamic Input Variables <table><tr><td>Region</td><td>England and Wales</td><td>Area (Ha)</td><td>0.012</td></tr><tr><td>M5-60 (mm)</td><td>21.000</td><td>SAAR (mm)</td><td>630</td></tr><tr><td>Ratio R</td><td>0.438</td><td>CWI</td><td>92.400</td></tr><tr><td>Areal Reduction Factor</td><td>1.000</td><td>Urban</td><td>0.000</td></tr><tr><td>Main Stream Length (m)</td><td>9.260</td><td>SPR</td><td>47.000</td></tr><tr><td>H(85%) (m)</td><td>42.130</td><td>LAG (hrs)</td><td>0.000</td></tr><tr><td>H(10%) (m)</td><td>41.830</td><td>Base Flow (l/s)</td><td>(Calculated)</td></tr></table> Output Variables <table><tr><td>TP(0) (mins)</td><td>51</td><td>TPt (mins)</td><td>54</td><td>TB (mins)</td><td>136</td><td>PR (%)</td><td>38.850</td></tr><tr><td>T (mins)</td><td>5</td><td>Q (l/s)</td><td>0.3</td><td>Base Flow (l/s)</td><td>0.0</td><td>S1085 (m/km)</td><td>43.197</td></tr></table> <table><tr><th>Time (mins)</th><th>Flow (l/s)</th><th>Time (mins)</th><th>Flow (l/s)</th><th>Time (mins)</th><th>Flow (l/s)</th><th>Time (mins)</th><th>Flow (l/s)</th><th>Time (mins)</th><th>Flow (l/s)</th><th>Time (mins)</th><th>Flow (l/s)</th></tr><tr><td>1</td><td>0.0</td><td>10</td><td>0.0</td><td>19</td><td>0.0</td><td>28</td><td>0.0</td><td>37</td><td>0.1</td><td>46</td><td>0.1</td></tr><tr><td>2</td><td>0.0</td><td>11</td><td>0.0</td><td>20</td><td>0.0</td><td>29</td><td>0.0</td><td>38</td><td>0.1</td><td>47</td><td>0.1</td></tr><tr><td>3</td><td>0.0</td><td>12</td><td>0.0</td><td>21</td><td>0.0</td><td>30</td><td>0.0</td><td>39</td><td>0.1</td><td>48</td><td>0.1</td></tr><tr><td>4</td><td>0.0</td><td>13</td><td>0.0</td><td>22</td><td>0.0</td><td>31</td><td>0.1</td><td>40</td><td>0.1</td><td>49</td><td>0.1</td></tr><tr><td>5</td><td>0.0</td><td>14</td><td>0.0</td><td>23</td><td>0.0</td><td>32</td><td>0.1</td><td>41</td><td>0.1</td><td>50</td><td>0.1</td></tr><tr><td>6</td><td>0.0</td><td>15</td><td>0.0</td><td>24</td><td>0.0</td><td>33</td><td>0.1</td><td>42</td><td>0.1</td><td>51</td><td>0.1</td></tr><tr><td>7</td><td>0.0</td><td>16</td><td>0.0</td><td>25</td><td>0.0</td><td>34</td><td>0.1</td><td>43</td><td>0.1</td><td>52</td><td>0.1</td></tr><tr><td>8</td><td>0.0</td><td>17</td><td>0.0</td><td>26</td><td>0.0</td><td>35</td><td>0.1</td><td>44</td><td>0.1</td><td>53</td><td>0.1</td></tr><tr><td>9</td><td>0.0</td><td>18</td><td>0.0</td><td>27</td><td>0.0</td><td>36</td><td>0.1</td><td>45</td><td>0.1</td><td>54</td><td>0.1</td></tr></table>			Region	England and Wales	Area (Ha)	0.012	M5-60 (mm)	21.000	SAAR (mm)	630	Ratio R	0.438	CWI	92.400	Areal Reduction Factor	1.000	Urban	0.000	Main Stream Length (m)	9.260	SPR	47.000	H(85%) (m)	42.130	LAG (hrs)	0.000	H(10%) (m)	41.830	Base Flow (l/s)	(Calculated)	TP(0) (mins)	51	TPt (mins)	54	TB (mins)	136	PR (%)	38.850	T (mins)	5	Q (l/s)	0.3	Base Flow (l/s)	0.0	S1085 (m/km)	43.197	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	1	0.0	10	0.0	19	0.0	28	0.0	37	0.1	46	0.1	2	0.0	11	0.0	20	0.0	29	0.0	38	0.1	47	0.1	3	0.0	12	0.0	21	0.0	30	0.0	39	0.1	48	0.1	4	0.0	13	0.0	22	0.0	31	0.1	40	0.1	49	0.1	5	0.0	14	0.0	23	0.0	32	0.1	41	0.1	50	0.1	6	0.0	15	0.0	24	0.0	33	0.1	42	0.1	51	0.1	7	0.0	16	0.0	25	0.0	34	0.1	43	0.1	52	0.1	8	0.0	17	0.0	26	0.0	35	0.1	44	0.1	53	0.1	9	0.0	18	0.0	27	0.0	36	0.1	45	0.1	54	0.1
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30 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Existing

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	1	Number of Offline Controls	0	Number of Time/Area Diagrams	0
Number of Online Controls	0	Number of Storage Structures	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.438
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	21.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	OFF
Inertia Status	OFF

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 0

PN	Storm	Return Period	Climate Change	First X Surchage	First Y Flood	First Z Overflow	O/F Act.	Lvl Exc.
E1.000	15 Winter	30	0%					
E2.000	120 Winter	30	0%					
E1.001	15 Winter	30	0%					

PN	US/MH Name	Water		Flooded		Pipe		
		Level (m)	Surch'd Depth (m)	Volume (m³)	Flow / Cap.	O'flow (l/s)	Flow (l/s)	Status
E1.000	E1	32.022	-0.128	0.000	0.05	0.0	0.7	OK
E2.000	E2	31.000	-0.150	0.000	0.00	0.0	0.0	OK
E1.001	E2	30.619	-0.128	0.000	0.05	0.0	0.7	OK

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<u>Input Hydrograph Manhole E2, DS/PN E1.001 (Existing)</u> <u>15 minute 30 year Winter I+0%</u> <u>Input Hydrograph Type: FSR Dynamic</u> Input Variables <table><tr><td>Region</td><td>England and Wales</td><td>Area (Ha)</td><td>0.012</td></tr><tr><td>M5-60 (mm)</td><td>21.000</td><td>SAAR (mm)</td><td>630</td></tr><tr><td>Ratio R</td><td>0.438</td><td>CWI</td><td>92.400</td></tr><tr><td>Areal Reduction Factor</td><td>1.000</td><td>Urban</td><td>0.000</td></tr><tr><td>Main Stream Length (m)</td><td>9.260</td><td>SPR</td><td>47.000</td></tr><tr><td>H(85%) (m)</td><td>42.130</td><td>LAG (hrs)</td><td>0.000</td></tr><tr><td>H(10%) (m)</td><td>41.830</td><td>Base Flow (l/s)</td><td>(Calculated)</td></tr></table> Output Variables <table><tr><td>TP(0) (mins)</td><td>51</td><td>TPt (mins)</td><td>54</td><td>TB (mins)</td><td>136</td><td>PR (%)</td><td>38.850</td></tr><tr><td>T (mins)</td><td>5</td><td>Q (l/s)</td><td>0.3</td><td>Base Flow (l/s)</td><td>0.0</td><td>S1085 (m/km)</td><td>43.197</td></tr></table> <table><tr><th>Time (mins)</th><th>Flow (l/s)</th><th>Time (mins)</th><th>Flow (l/s)</th><th>Time (mins)</th><th>Flow (l/s)</th><th>Time (mins)</th><th>Flow (l/s)</th><th>Time (mins)</th><th>Flow (l/s)</th><th>Time (mins)</th><th>Flow (l/s)</th><th>Time (mins)</th><th>Flow (l/s)</th></tr><tr><td>1</td><td>0.0</td><td>10</td><td>0.0</td><td>19</td><td>0.1</td><td>28</td><td>0.1</td><td>37</td><td>0.1</td><td>46</td><td>0.2</td><td>55</td><td>0.2</td></tr><tr><td>2</td><td>0.0</td><td>11</td><td>0.0</td><td>20</td><td>0.1</td><td>29</td><td>0.1</td><td>38</td><td>0.2</td><td>47</td><td>0.2</td><td>56</td><td>0.2</td></tr><tr><td>3</td><td>0.0</td><td>12</td><td>0.0</td><td>21</td><td>0.1</td><td>30</td><td>0.1</td><td>39</td><td>0.2</td><td>48</td><td>0.2</td><td>57</td><td>0.2</td></tr><tr><td>4</td><td>0.0</td><td>13</td><td>0.0</td><td>22</td><td>0.1</td><td>31</td><td>0.1</td><td>40</td><td>0.2</td><td>49</td><td>0.2</td><td>58</td><td>0.2</td></tr><tr><td>5</td><td>0.0</td><td>14</td><td>0.0</td><td>23</td><td>0.1</td><td>32</td><td>0.1</td><td>41</td><td>0.2</td><td>50</td><td>0.2</td><td>59</td><td>0.2</td></tr><tr><td>6</td><td>0.0</td><td>15</td><td>0.1</td><td>24</td><td>0.1</td><td>33</td><td>0.1</td><td>42</td><td>0.2</td><td>51</td><td>0.2</td><td>60</td><td>0.2</td></tr><tr><td>7</td><td>0.0</td><td>16</td><td>0.1</td><td>25</td><td>0.1</td><td>34</td><td>0.1</td><td>43</td><td>0.2</td><td>52</td><td>0.2</td><td></td><td></td></tr><tr><td>8</td><td>0.0</td><td>17</td><td>0.1</td><td>26</td><td>0.1</td><td>35</td><td>0.1</td><td>44</td><td>0.2</td><td>53</td><td>0.2</td><td></td><td></td></tr><tr><td>9</td><td>0.0</td><td>18</td><td>0.1</td><td>27</td><td>0.1</td><td>36</td><td>0.1</td><td>45</td><td>0.2</td><td>54</td><td>0.2</td><td></td><td></td></tr></table>			Region	England and Wales	Area (Ha)	0.012	M5-60 (mm)	21.000	SAAR (mm)	630	Ratio R	0.438	CWI	92.400	Areal Reduction Factor	1.000	Urban	0.000	Main Stream Length (m)	9.260	SPR	47.000	H(85%) (m)	42.130	LAG (hrs)	0.000	H(10%) (m)	41.830	Base Flow (l/s)	(Calculated)	TP(0) (mins)	51	TPt (mins)	54	TB (mins)	136	PR (%)	38.850	T (mins)	5	Q (l/s)	0.3	Base Flow (l/s)	0.0	S1085 (m/km)	43.197	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	1	0.0	10	0.0	19	0.1	28	0.1	37	0.1	46	0.2	55	0.2	2	0.0	11	0.0	20	0.1	29	0.1	38	0.2	47	0.2	56	0.2	3	0.0	12	0.0	21	0.1	30	0.1	39	0.2	48	0.2	57	0.2	4	0.0	13	0.0	22	0.1	31	0.1	40	0.2	49	0.2	58	0.2	5	0.0	14	0.0	23	0.1	32	0.1	41	0.2	50	0.2	59	0.2	6	0.0	15	0.1	24	0.1	33	0.1	42	0.2	51	0.2	60	0.2	7	0.0	16	0.1	25	0.1	34	0.1	43	0.2	52	0.2			8	0.0	17	0.1	26	0.1	35	0.1	44	0.2	53	0.2			9	0.0	18	0.1	27	0.1	36	0.1	45	0.2	54	0.2		
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Micro Drainage		Network 2013.1.1

100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Existing

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m ³ /ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	1	Number of Offline Controls	0	Number of Time/Area Diagrams	0
Number of Online Controls	0	Number of Storage Structures	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.438
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	21.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	OFF
Inertia Status	OFF

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 0

PN	Storm	Return Period	Climate Change	First X Surchage	First Y Flood	First Z Overflow	O/F Act.	Lvl Exc.
E1.000	15 Winter	100	0%					
E2.000	120 Winter	100	0%					
E1.001	15 Winter	100	0%					

PN	US/MH Name	Water		Flooded		Pipe		
		Level (m)	Surch'd Depth (m)	Volume (m ³)	Flow / Cap.	O'flow (l/s)	Flow (l/s)	Status
E1.000	E1	32.026	-0.124	0.000	0.07	0.0	0.9	OK
E2.000	E2	31.000	-0.150	0.000	0.00	0.0	0.0	OK
E1.001	E2	30.622	-0.124	0.000	0.07	0.0	0.9	OK

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Ramboll UK Ltd		Page 8
60 Newman Street London W1T 3DA	Kiln Place Plot 2 Existing Discharge rates	
Date 17/09/2014 File KP_PLOT 6.MDX	Designed by GI Checked by GI	
Micro Drainage	Network 2013.1.1	

Input Hydrograph Manhole E2, DS/PN E1.001 (Existing)

15 minute 100 year Winter I+0%

Input Hydrograph Type: FSR Dynamic

Input Variables

Region	England and Wales	Area (Ha)	0.012
M5-60 (mm)	21.000	SAAR (mm)	630
Ratio R	0.438	CWI	92.400
Areal Reduction Factor	1.000	Urban	0.000
Main Stream Length (m)	9.260	SPR	47.000
H(85%) (m)	42.130	LAG (hrs)	0.000
H(10%) (m)	41.830	Base Flow (l/s)	(Calculated)

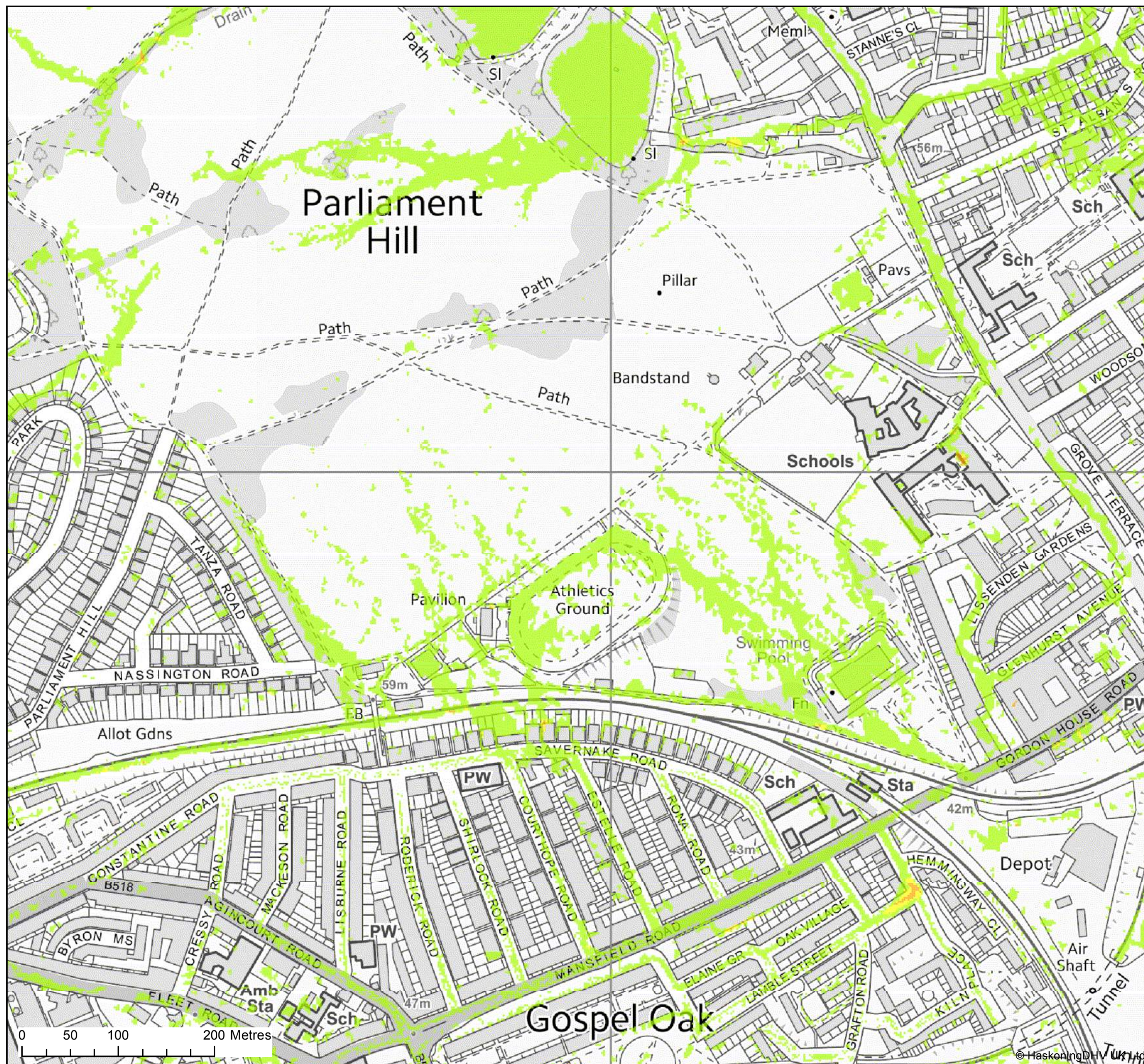
Output Variables

TP(0) (mins)	51	TPT (mins)	54	TB (mins)	136	PR (%)	38.850
T (mins)	5	Q (l/s)	0.3	Base Flow (l/s)	0.0	S1085 (m/km)	43.197

Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)	Time (mins)	Flow (l/s)
1	0.0	10	0.0	19	0.1	28	0.1	37	0.2	46	0.2	55	0.3
2	0.0	11	0.0	20	0.1	29	0.1	38	0.2	47	0.3	56	0.3
3	0.0	12	0.1	21	0.1	30	0.2	39	0.2	48	0.3	57	0.3
4	0.0	13	0.1	22	0.1	31	0.2	40	0.2	49	0.3	58	0.3
5	0.0	14	0.1	23	0.1	32	0.2	41	0.2	50	0.3	59	0.3
6	0.0	15	0.1	24	0.1	33	0.2	42	0.2	51	0.3	60	0.3
7	0.0	16	0.1	25	0.1	34	0.2	43	0.2	52	0.3		
8	0.0	17	0.1	26	0.1	35	0.2	44	0.2	53	0.3		
9	0.0	18	0.1	27	0.1	36	0.2	45	0.2	54	0.3		

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APPENDIX E GOSPEL OAK FLOOD HAZARD MAPPING



Legend

Flood Hazard Rating

- Little or no danger
- Danger for some
- Danger for most
- Danger for all

Note:

The flood risk depicted on this figure is based on the best available modelling information at the time.

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Client:	Project:
Camden Council	Gospel Oak Flood Risk Study

Title:
Flood hazard for the 75-year present-day scenario

Figure: 06c					
Revision:	Date:	Drawn:	Checked:	Size:	Scale:
00	Mar 2013	JS	BR	A3	1:4,000

Co-ordinate system: British National Grid



HASKONINGDHV UK LTD
RIVERS, DELTAS & COASTS
Rightwell House
Bretton
Peterborough
PE3 8DW
+44 (0) 1733 334455
www.royalhaskoningdhv.co.uk