

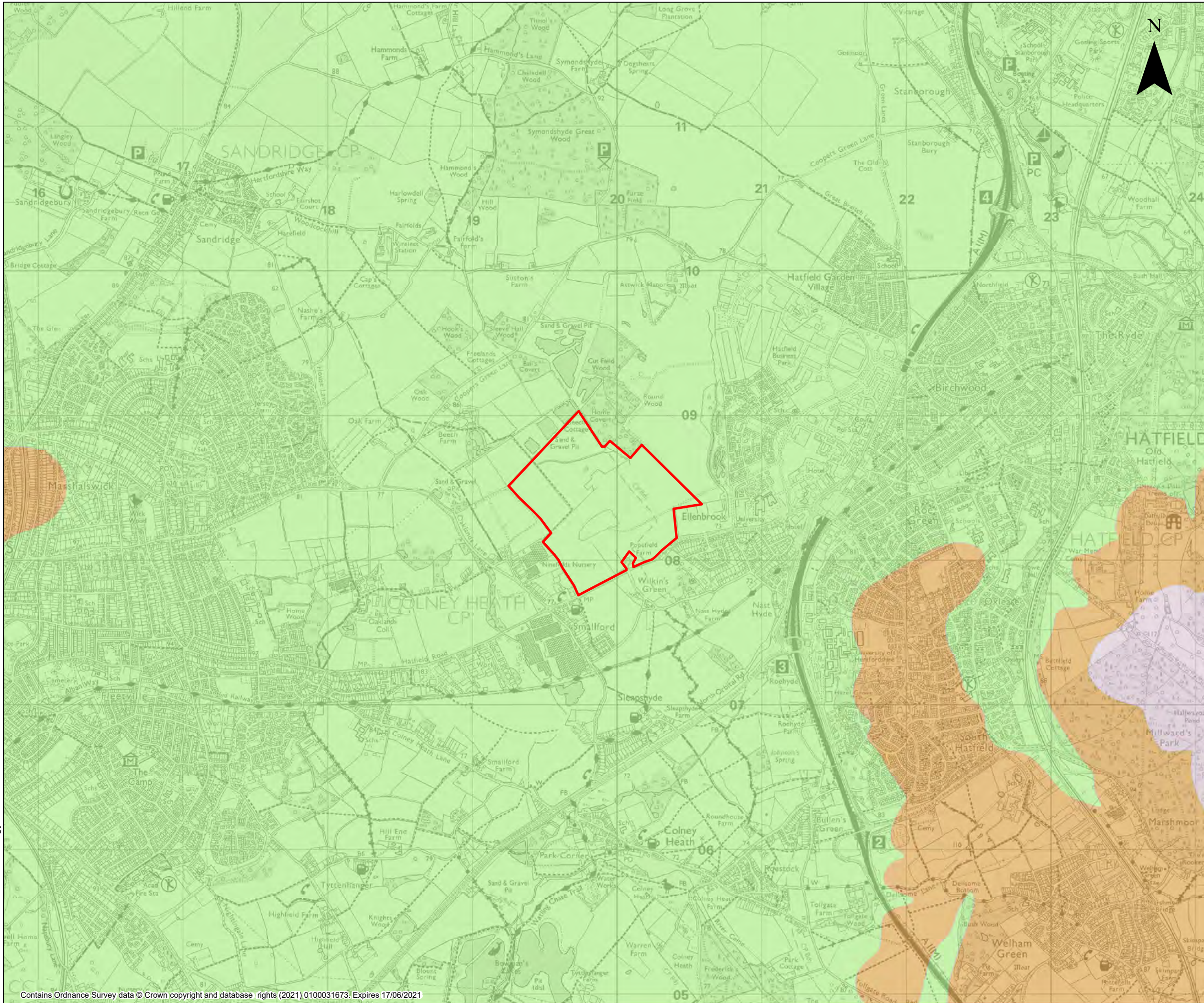
Land at Hatfield Aerodrome
Planning Appeal Reference: APP/M1900/W/24/3346607
LPA Reference: PL/0232/21

DETERMINATION DRAWINGS

INDEX

Drawing No.	Drawing Title
HQ6	
HQ6/1	Solid Geology
HQ6/2	Drift Geology
HQ6/3	Site Borehole Location Plan and Line of Cross Section
HQ6/4	Cross Section of Site Geology
HQ6/5	Regional Hydrology/Hydrogeology
HQ6/6	Upper Mineral Horizon High Groundwater Contours (August 2019)
HQ6/7	Upper Mineral Horizon High Groundwater Contours (April 2021)
HQ6/8	Lower Mineral Horizon High Groundwater Contours (April 2021)
HQ6/9	Regional Bromate Plume (Chalk) October 2019
HQ6/10	Lower Mineral Horizon High Groundwater Contours (April 2021) – with Bromate Concentrations

01009.00132.18.HQ.6.1.0 Solid Geology



NOTES	
1. SOLID GEOLOGY DATA OBTAINED VIA BGS WMS. BRITISH GEOLOGICAL SURVEY ©NERC. ALL RIGHTS RESERVED.	
LEGEND	
	SITE BOUNDARY
	LONDON CLAY FORMATION
	LAMBETH GROUP
	LEWES NODULAR CHALK FORMATION AND SEAFORD CHALK FORMATION

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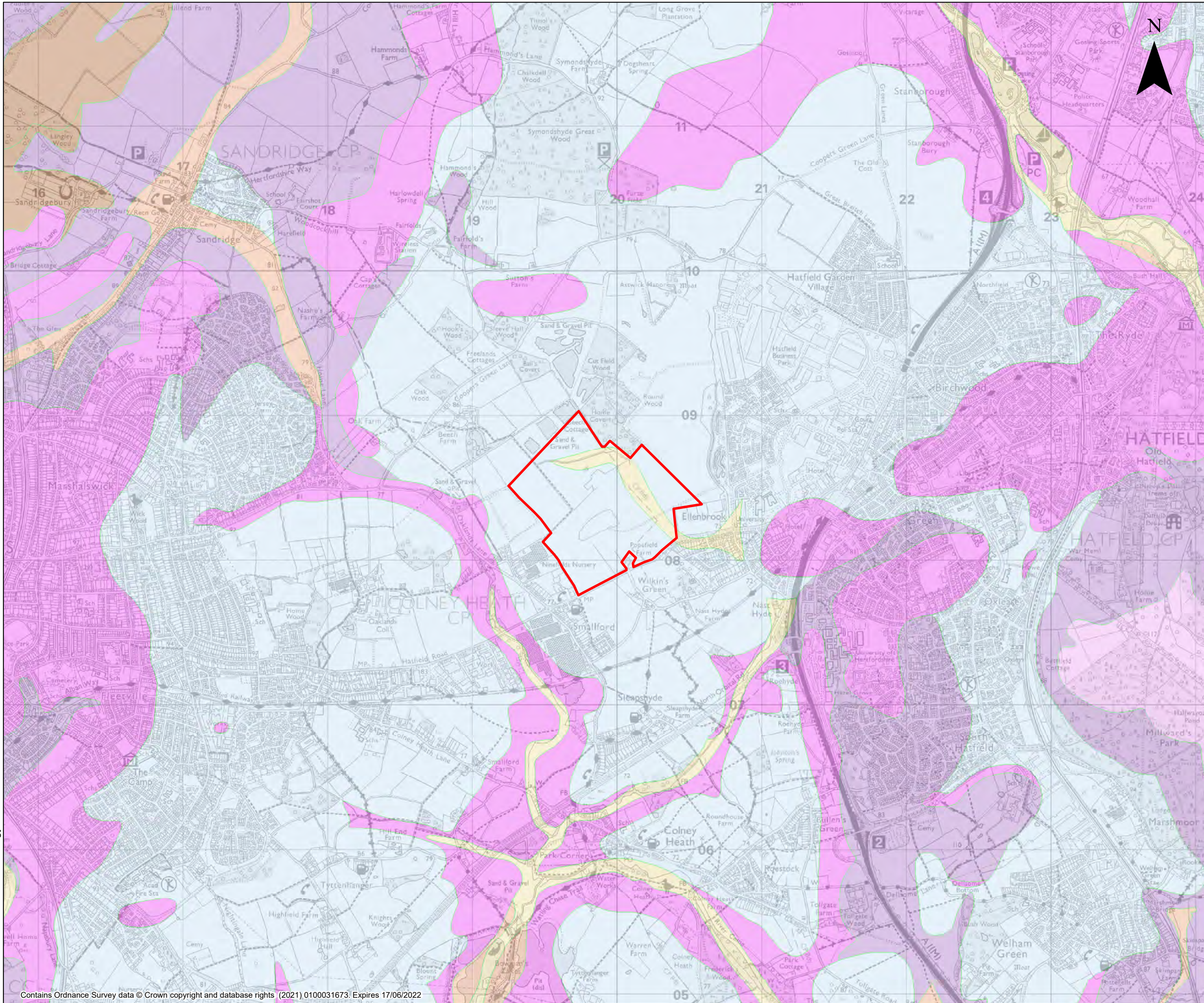


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HATFIELD AERODROME	
ENVIRONMENTAL STATEMENT	
SOLID GEOLOGY	
HQ 6/1	
Scale 1:25,000 @ A3	Date JUNE 2021

01009.00132.18.HQ.6.2.0 Drift Geology



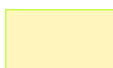
NOTES

1. DRIFT GEOLOGY DATA OBTAINED VIA BGS WMS. BRITISH GEOLOGICAL SURVEY ©NERC. ALL RIGHTS RESERVED.

LEGEND

 SITE BOUNDARY

DRIFT GEOLOGY

 ALLUVIUM

 RIVER TERRACE DEPOSITS

 CLAY WITH FLINTS FORMATION

 KESGRAVE CATCHMENT SUBGROUP

 LOWESTOFT FORMATION

 SAND AND GRAVEL OF UNCERTAIN AGE

 BEDROCK AT OR NEAR SURFACE

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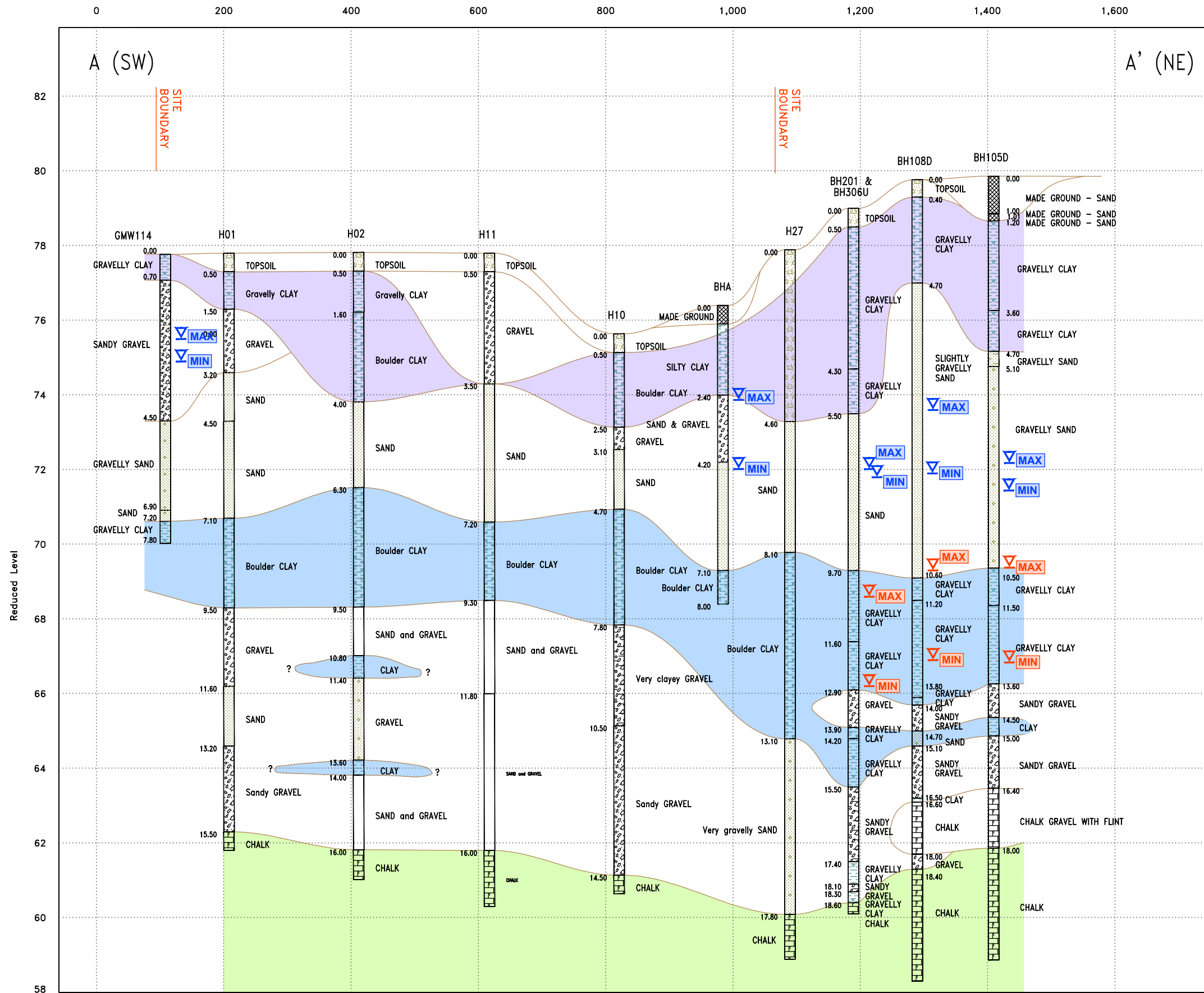
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HATFIELD AERODROME
ENVIRONMENTAL STATEMENT
DRIFT GEOLOGY
HQ 6/2

Scale 1:25,000 @ A3 Date JUNE 2021

09885.00024.18.HQ6-4.0_X_SECTION_SITE_GEOLOGY.dwg



- NOTES
- UPPER MINERAL HORIZON - MAX. GROUNDWATER ELEVATION
 - UPPER MINERAL HORIZON - MIN. GROUNDWATER ELEVATION
 - LOWER MINERAL HORIZON / CHALK - MAX. GROUNDWATER ELEVATION
 - LOWER MINERAL HORIZON / CHALK - MIN. GROUNDWATER ELEVATION

- LEGEND
- OVERBURDEN
 - INTERBURDEN
 - CHALK



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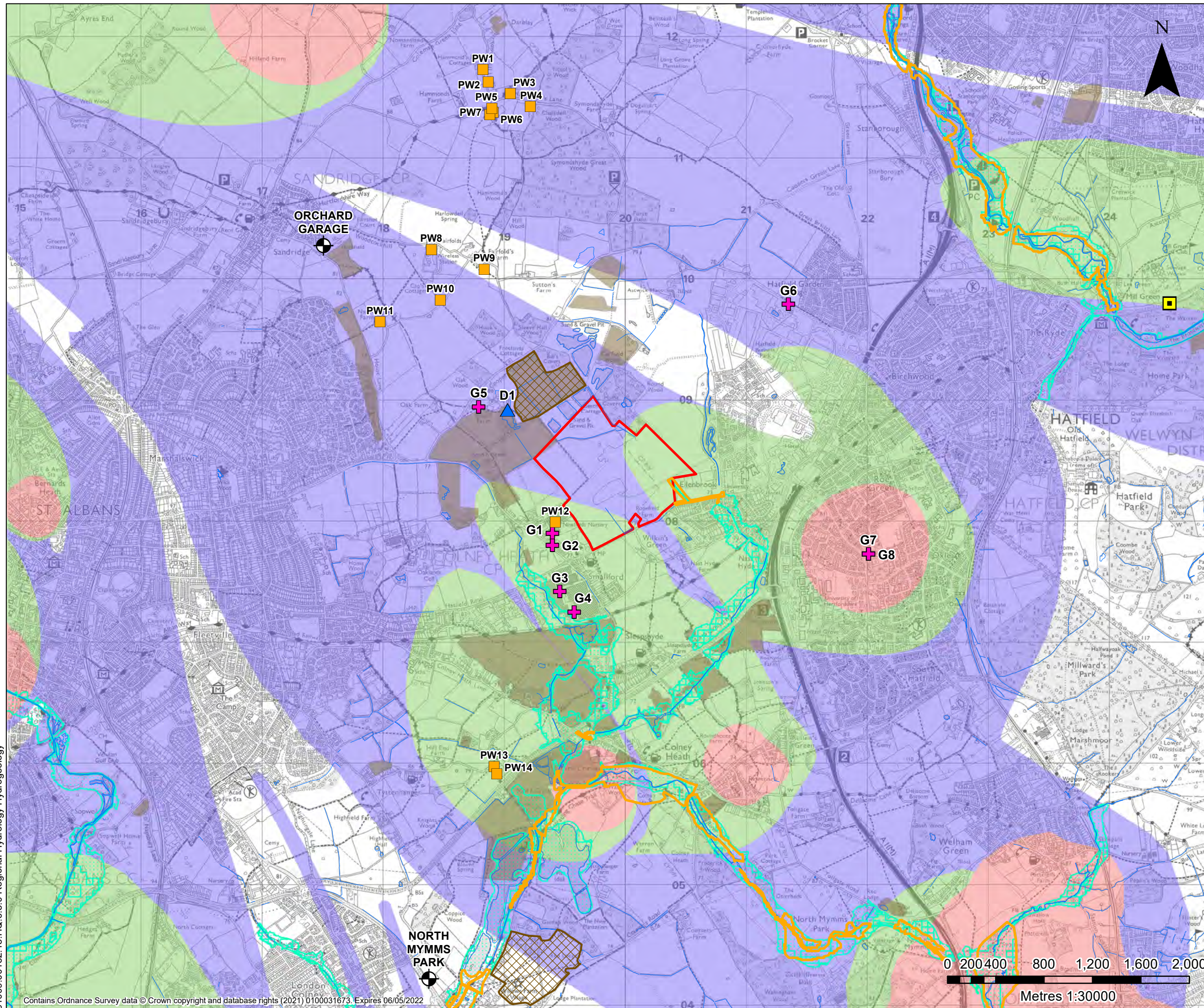
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HATFIELD AERODROME
ENVIRONMENTAL STATEMENT
CROSS SECTION OF SITE GEOLOGY
HQ 6/4

Scale NTS (A3)

Date JUNE 2021

01009.00132.18.HQ.6.5.0 Regional Hydrology Hydrogeology



LEGEND

- SITE BOUNDARY
- HISTORIC FLOOD EXTENT
- FLOOD ZONE 2
- LANDFILL SITE
- HISTORIC LANDFILL SITE
- ENVIRONMENT AGENCY MONITORED BOREHOLES
- LICENSED ABSTRACTION WITHIN 2KM RADIUS
- LICENSED DISCHARGE WITHIN 2KM RADIUS
- ENVIRONMENT AGENCY RAINFALL MONITOR
- PRIVATE WATER SUPPLY
- WATERCOURSE

GROUNDWATER SOURCE PROTECTION ZONES

- INNER ZONE (ZONE 1)
- OUTER ZONE (ZONE 2)
- TOTAL CATCHMENT (ZONE 3)

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HATFIELD AERODROME
ENVIRONMENTAL STATEMENT

REGIONAL HYDROLOGY/
HYDROGEOLOGY

HQ 6/5

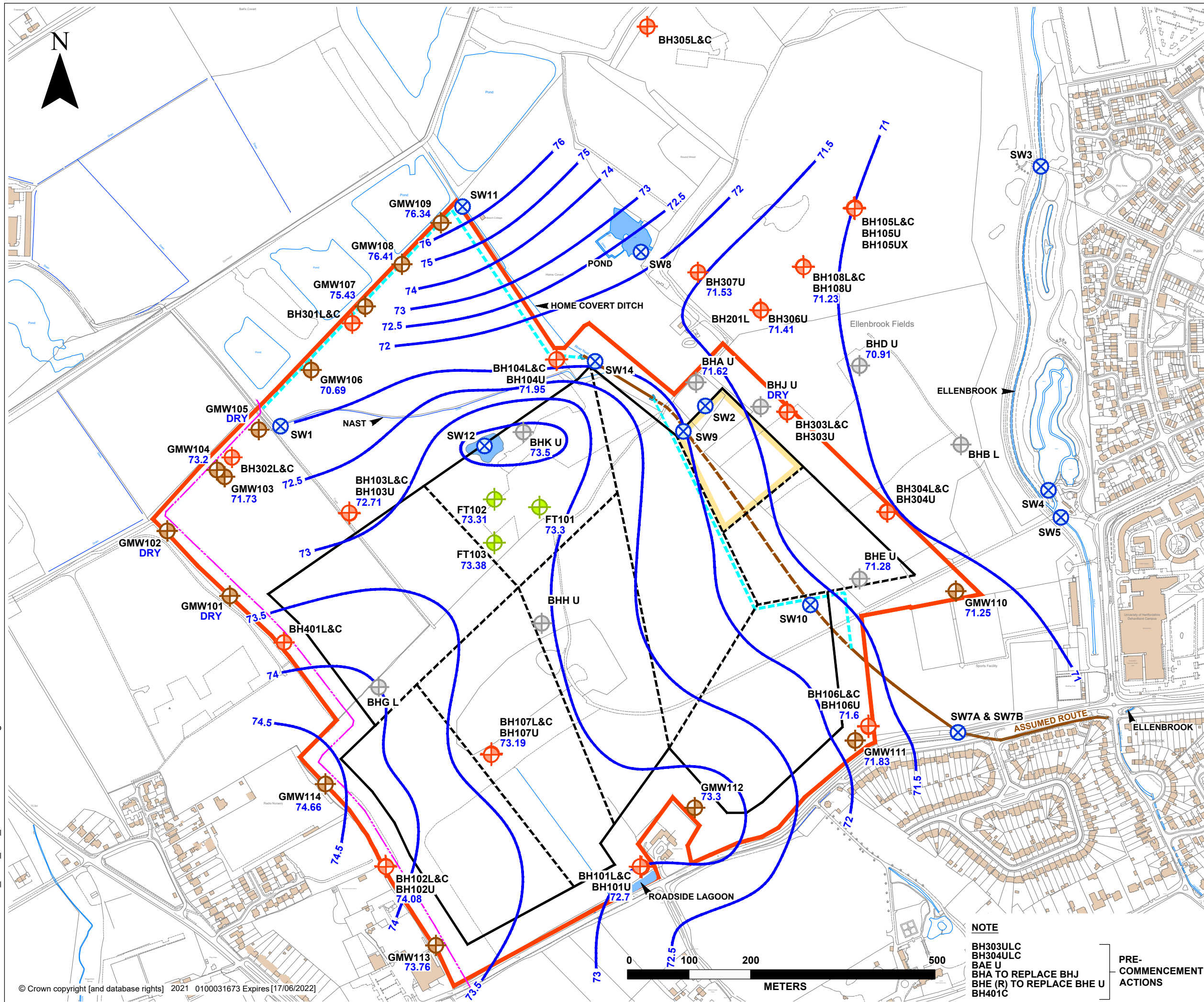
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Date JUN 2021

0 200 400 800 1,200 1,600 2,000
Metres 1:30000

09885.00024.19.HQ6-6.0_U MH_GW_CONTOURS-0819.dwg

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LEGEND

- SITE BOUNDARY
- EXISTING RIVER NAST CULVERT (TO BE RETAINED)
- EXISTING RIVER NAST CULVERT (TO BE ABANDONED)
- RIVER NAST CULVERT (PROPOSED ROUTE)
- NATIONAL GRID GAS PIPELINE (SURVEYED LOCATION)
- PROPOSED MINERAL DEVELOPMENT SITE
- PHASE BOUNDARY
- PROPOSED UPPER MINERAL LAGOON
- PRE BRETT MONITORING WELLS

SLR BOREHOLES

- DUAL MONITORING WELLS (LOWER MINERAL HORIZON AND CHALK)
- SHALLOW MONITORING WELL (UPPER MINERAL HORIZON)
- SURFACE WATER MONITORING POINT
- FIRE TRAINING AREA MONITORING WELL
- GAS AND UPPER MINERAL AQUIFER MONITORING WELLS

PIEZOMETRIC SURFACE

- PIEZOMETRIC SURFACE ELEVATION (mAOD) - SLR (AUGUST 2019)



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HATFIELD AERODROME
ENVIRONMENTAL STATEMENT
UPPER MINERAL HORIZON
GROUNDWATER CONTOURS
(AUGUST 2019)

HQ 6/6

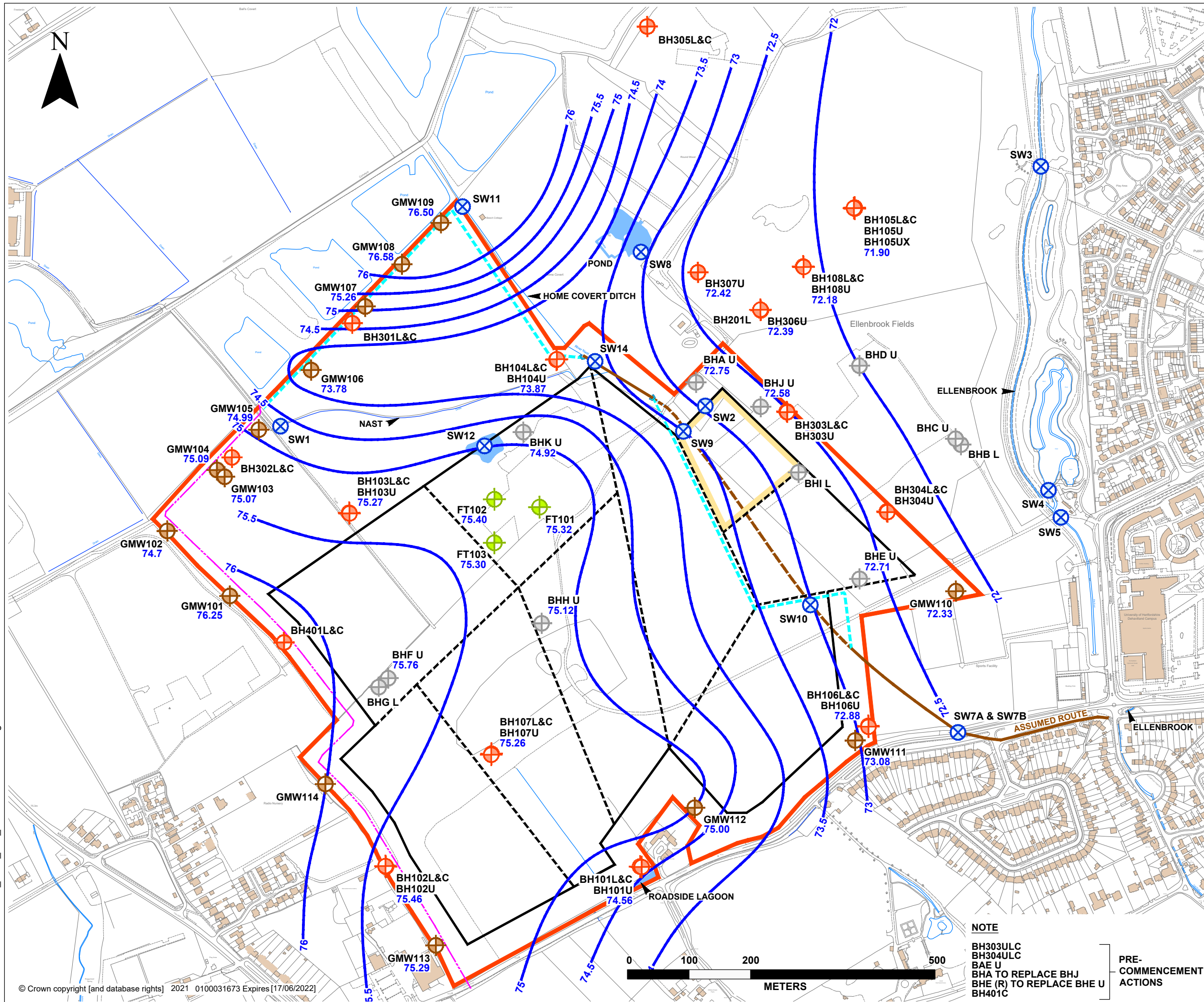
Scale NTS (A3) Date SEPTEMBER 2021

NOTE

BH303ULC
BH304ULC
BAE U
BHA TO REPLACE BHJ
BHE (R) TO REPLACE BHE U
BH401C

PRE-
COMMENCEMENT
ACTIONS

09885.00024.19.HQ6-7.0_UH_GW_CONTOURS-0421.dwg



LEGEND

	SITE BOUNDARY
	EXISTING RIVER NAST CULVERT (TO BE RETAINED)
	EXISTING RIVER NAST CULVERT (TO BE ABANDONED)
	RIVER NAST CULVERT (PROPOSED ROUTE)
	NATIONAL GRID GAS PIPELINE (SURVEYED LOCATION)
	PROPOSED MINERAL DEVELOPMENT SITE
	PHASE BOUNDARY
	PROPOSED UPPER MINERAL LAGOON
	PRE BRETT MONITORING WELLS
	BHK U

SLR BOREHOLES

	DUAL MONITORING WELLS (LOWER MINERAL HORIZON AND CHALK)
	BH104L&C
	SHALLOW MONITORING WELL (UPPER MINERAL HORIZON)
	BH104U
	SURFACE WATER MONITORING POINT
	SW2
	FIRE TRAINING AREA MONITORING WELL
	FT101
	GAS AND UPPER MINERAL AQUIFER MONITORING WELLS
	GMW106

PIEZOMETRIC SURFACE

	PIEZOMETRIC SURFACE ELEVATION (mAOD) - SLR (APRIL 2021)
65	

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HATFIELD AERODROME

ENVIRONMENTAL STATEMENT

UPPER MINERAL HORIZON

GROUNDWATER CONTOURS

(APRIL 2021)

HQ 6/7

Scale NTS (A3) Date SEPTEMBER 2021

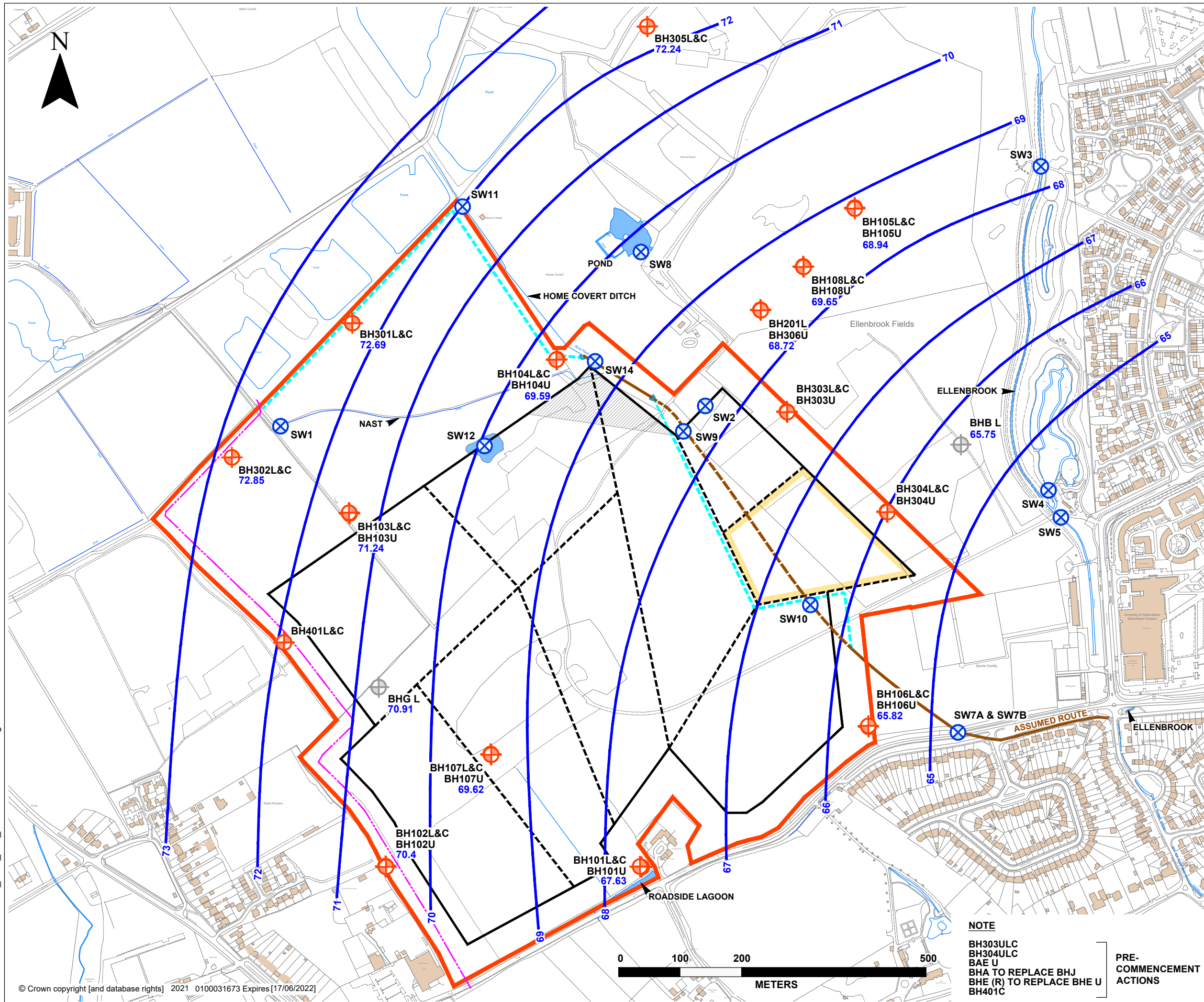
NOTE

BH303ULC
BH304ULC
BAE U
BHA TO REPLACE BHJ
BHE (R) TO REPLACE BHE U
BH401C

PRE-COMMENCEMENT ACTIONS

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NOTE

BH303ULC
BH304ULC
BAE U
BHA TO REPLACE BHJ
BHE (R) TO REPLACE BHE U
BH401C

PRE-
COMMENCEMENT
ACTIONS

LEGEND

- SITE BOUNDARY
- EXISTING RIVER NAST CULVERT (TO BE RETAINED)
- EXISTING RIVER NAST CULVERT (TO BE ABANDONED)
- RIVER NAST CULVERT (PROPOSED ROUTE)
- NATIONAL GRID GAS PIPELINE (SURVEYED LOCATION)
- PROPOSED MINERAL DEVELOPMENT SITE
- PHASE BOUNDARY
- PROPOSED LOWER MINERAL LAGOON
- 100m STANDARD OFFSET FROM BH104
- PRE BRETT MONITORING WELLS

SLR BOREHOLES

- DUAL MONITORING WELLS (LOWER MINERAL HORIZON AND CHALK)
- SHALLOW MONITORING WELL (UPPER MINERAL HORIZON)
- SURFACE WATER MONITORING POINT
- GAS AND UPPER MINERAL AQUIFER MONITORING WELLS

PIEZOMETRIC SURFACE

- PIEZOMETRIC SURFACE ELEVATION (mAOD) - SLR (APRIL 2021)



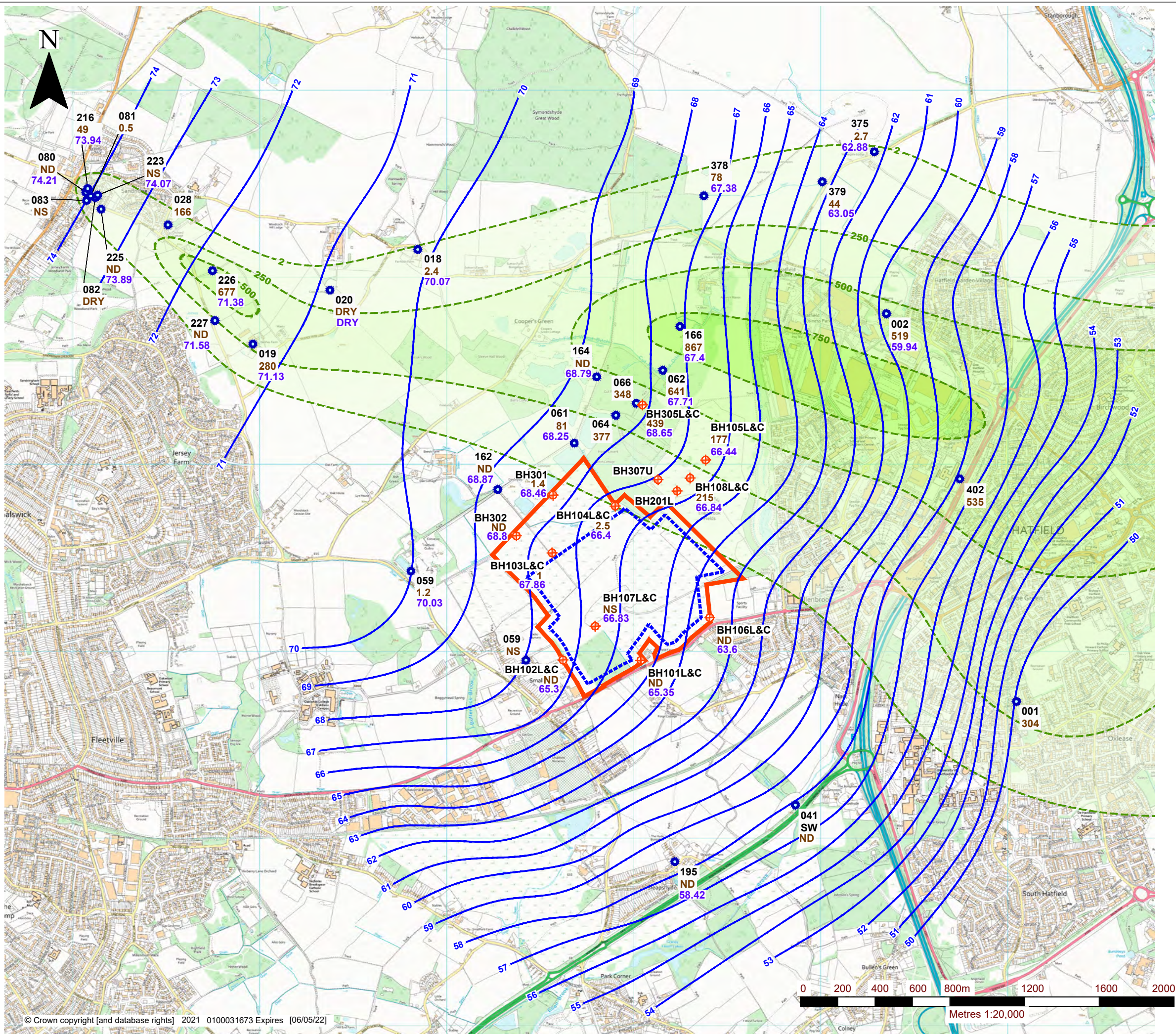
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HATFIELD AERODROME
ENVIRONMENTAL STATEMENT
LOWER MINERAL HORIZON
GROUNDWATER CONTOURS
(APRIL 2021)

HQ 6/8

Scale
NTS (A3)

Date
SEPTEMBER 2021



LEGEND

SITE BOUNDARY

PROPOSED MINERAL DEVELOPMENT SITE

375

WELL NUMBER
(ENVIRONMENT AGENCY
REFERENCE NUMBER)

SLR BOREHOLES AND MONITORING POINTS

SLR WELLS

GROUNDWATER LEVELS

65.98

GROUNDWATER ELEVATION
mAD

63

GROUNDWATER CONTOURS
mAD

BROMATE CONCENTRATION (ug/l)

71.7

BROMATE (ug/l)

ND

NOT DETECTED

NS

NOT SAMPLED

SW

SURFACE WATER

> 750

500 - 750

250 - 500

2 - 250

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ENVIRONMENTAL STATEMENT

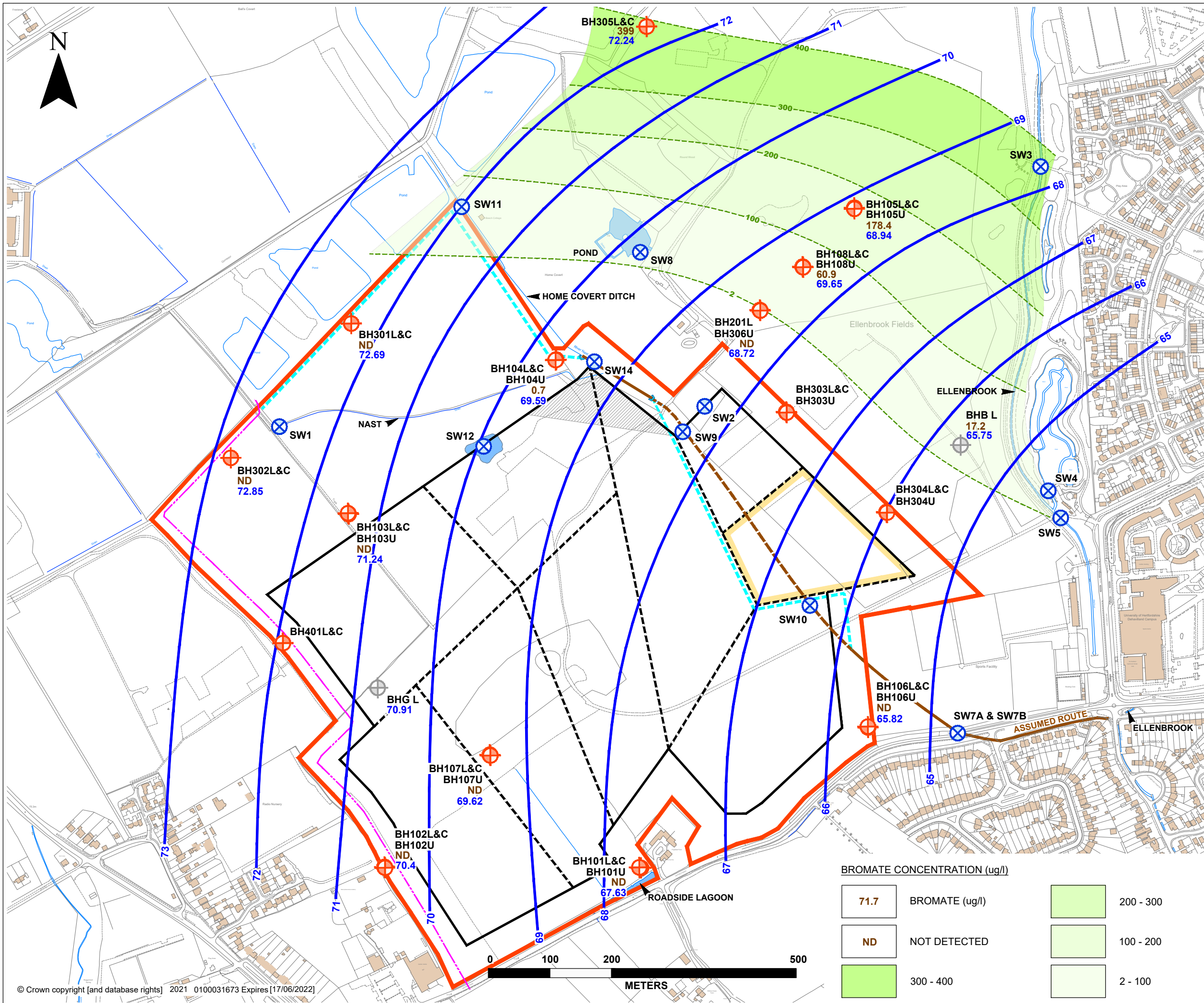
REGIONAL BROMATE PLUME
(CHALK)
OCTOBER 2019

HQ 6/9

Scale
1:20,000 @ A3

Date
SEPTEMBER 2021

09885.00024.19.HQ6-10.0_BROMATE_CON-APRIL2021.dwg



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LEGEND

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- EXISTING RIVER NAST CULVERT (TO BE RETAINED)
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SLR BOREHOLES

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- GAS AND UPPER MINERAL AQUIFER MONITORING WELLS

PIEZOMETRIC SURFACE

- PIEZOMETRIC SURFACE ELEVATION (mAOD) - SLR (APRIL 2021)

HATFIELD AERODROME

ENVIRONMENTAL STATEMENT

LOWER MINERAL HORIZON GROUNDWATER CONTOURS (APRIL 2021)

HQ 6/10

Scale: NTS (A3) Date: SEPTEMBER 2021

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