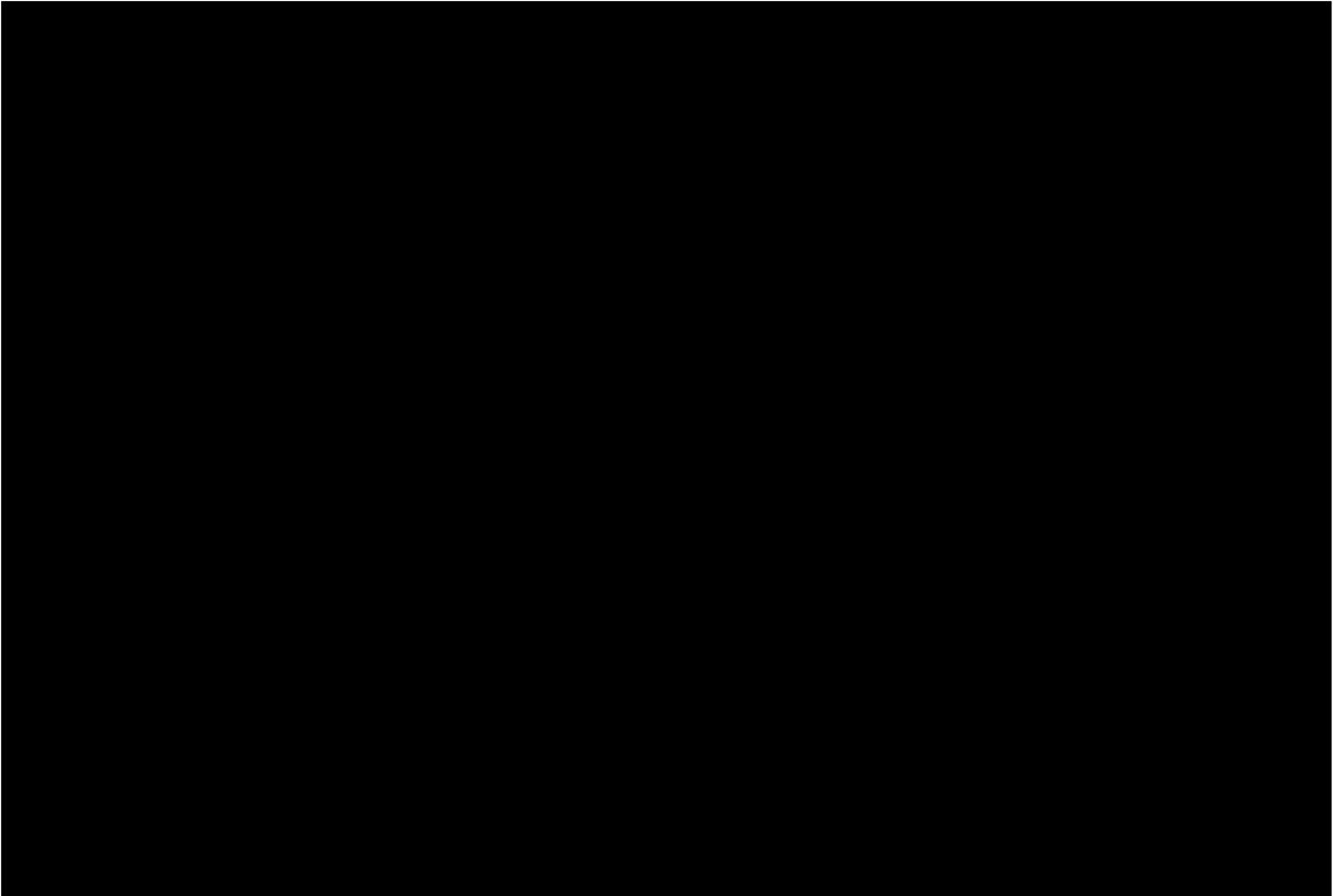




**From:** Sarah Burrow <Sarah.Burrow@arun.gov.uk>  
**Sent:** 13 March 2020 14:17  
**To:** Planning.Responses <Planning.Responses@arun.gov.uk>  
**Cc:** Simon Davis <Simon.Davis@arun.gov.uk>  
**Subject:** FW: North End Rd/W of Church Lane Nursery: Ref Y/18/20/PL

Planning Responses: Please upload the attached documents to Y/18/20/PL – Simon no action required.

Many Thanks

Sarah Burrow  
Engineering Assistant

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**From:** [REDACTED]  
**Sent:** 13 March 2020 12:50  
**To:** Sarah Burrow <Sarah.Burrow@arun.gov.uk>  
**Cc:** [REDACTED]  
**Subject:** North End Rd/W of Church Lane Nursery: Ref Y/18/20/PL

Sarah

Following on from our earlier discussion please find attached the groundwater monitoring results from the adjacent site, I have also attached the drawing that shows the test locations in relation to our proposed development.  
Please contact me should you need to discuss or require any further information.  
Many thanks.

Regards

**Kazys**

Kazys Narbutas

**K A Z Y S   ·   N A R B U T A S   ·   C O N S U L T I N G**  
*Civil Engineering Consultant*

Unit 5B  
Tanners Court  
Tanners Lane  
East Wellow  
Romsey  
SO51 6DP



KEY

  
Location of soakaway tests  
Result & Depth shown

  
Groundwater monitoring results  
depth of highest recorded level



KAZYS NARBUTAS

CONSULTING

Civil Engineering Consultant

1116, 9B, Taborova Court, Tarnobrzeg, Poland, 32-001, 32-002

Tarnobrzeg 32-001, 32-002 Email: kazys.n@knc.pl

Project

NORTH END ROAD, YAPTON: Phase 2

Drawing Title

Engineering Details: Soakaway Tests & Groundwater Monitoring Locations

Drawing Status

FOR INFORMATION

Client



Rev.

A

Date

15/01/20

Details

First Issue

Initials

Scales

1:500

Paper Size

A3

Job No.

KNC2004

Drawing No.

500-002

Rev

A

This drawing is the copyright of Kazys Narbutas Consulting and may not be copied, altered or reproduced in any form or passed to a third party without the consent of Kazys Narbutas Consulting. Do not scale from this drawing, use figured dimensions only. Dimensions should be checked and verified on site and any discrepancies should be reported to Kazys Narbutas Consulting as soon as possible.

## Orchard Business Park - Summary of Soil-Gas Conditions

| Date<br>(Baro Trend)    | Trial<br>Hole | CH <sub>4</sub><br>(%v/v) | CO <sub>2</sub><br>(%v/v) | O <sub>2</sub><br>(%v/v) | H <sub>2</sub> S<br>(ppm) | CO<br>(ppm) | LEL<br>(%) | aP<br>(mb) | Flow<br>(l/h) | Dp  | H <sub>2</sub> O<br>(m bgl) | VOC<br>(ppm) |
|-------------------------|---------------|---------------------------|---------------------------|--------------------------|---------------------------|-------------|------------|------------|---------------|-----|-----------------------------|--------------|
| 30/01/2018<br>(Falling) | ATM           | 0.0                       | 0.0                       | 20.5                     | 0.0                       | -5.0        | 0.0        | 1030       | 0.7           | 3.0 | -                           | 0.0          |
|                         | WS1           | 0.0                       | 8.5                       | 8.3                      | 0.0                       | -4.0        | 0.0        | 1029       | 0.5           | 2.0 | 2.61                        | 1.0          |
|                         | WS2           | 0.0                       | 2.6                       | 11.3                     | 0.0                       | -3.0        | 0.0        | 1028       | 0.6           | 2.0 | 3.92                        | 0.0          |
|                         | WS3           | 0.0                       | 1.7                       | 15.9                     | 0.0                       | -4.0        | 0.0        | 1029       | 0.5           | 2.0 | 4.45                        | 1.0          |
| 07/02/2018<br>(Rising)  | ATM           | 0.0                       | 0.0                       | 20.3                     | 0.0                       | -5.0        | 0.0        | 1022       | 1.5           | 7.0 | -                           | 0.0          |
|                         | WS1           | 0.0                       | 9.6                       | 6.0                      | 0.0                       | -5.0        | 0.0        | 1022       | 1.6           | 7.0 | 2.83                        | 0.0          |
|                         | WS2           | 0.0                       | 3.1                       | 10.1                     | 0.0                       | -5.0        | 0.0        | 1022       | 1.2           | 6.0 | 4.78                        | 0.0          |
|                         | WS3           | 0.0                       | 2.0                       | 16.2                     | 0.0                       | -5.0        | 58.0       | 1020       | 1.2           | 6.0 | 4.50                        | 0.0          |
| 15/02/2018<br>(Rising)  | ATM           | 0.0                       | 0.0                       | 20.8                     | 0.0                       | 0.0         | 0.0        | 1015       | 0.0           | 0.0 | -                           | 0.0          |
|                         | WS1           | 0.0                       | 12.0                      | 2.4                      | 0.0                       | 0.0         | 0.0        | 1015       | 0.0           | 0.0 | 2.72                        | 0.0          |
|                         | WS2           | 0.0                       | 3.9                       | 5.4                      | 0.0                       | 0.0         | 0.0        | 1015       | 0.0           | 0.0 | 4.02                        | 0.0          |
|                         | WS3           | 0.0                       | 2.3                       | 14.5                     | 0.0                       | 0.0         | 0.0        | 1015       | 0.0           | 0.0 | 4.31                        | 0.0          |
| 26/03/2018<br>(Steady)  | ATM           | 0.0                       | 0.0                       | 20.4                     | 0.0                       | 0.0         | 0.0        | 1015       | 0.0           | 0.0 | -                           | 0.0          |
|                         | WS1           | 0.0                       | 13.0                      | 1.7                      | 0.0                       | 2.0         | 0.0        | 1015       | 0.0           | 0.0 | 2.73                        | 0.0          |
|                         | WS2           | 0.0                       | 3.9                       | 4.3                      | 0.0                       | 0.0         | 0.0        | 1015       | 0.0           | 0.0 | 4.26                        | 0.0          |
|                         | WS3           | 0.0                       | 2.1                       | 12.4                     | 0.0                       | 0.0         | 0.0        | 1015       | 0.0           | 0.0 | -                           | 0.0          |
| 11/05/2018<br>(Falling) | ATM           | 0.0                       | 0.0                       | 20.1                     | 0.0                       | 0.0         | 0.0        | 1017       | 1.2           | 4.0 | -                           | 0.0          |
|                         | WS1           | 0.0                       | 1.1                       | 18.1                     | 0.0                       | 0.0         | 0.0        | 1017       | 0.4           | 1.0 | 2.44                        | 0.2          |
|                         | WS2           | 0.0                       | 1.4                       | 14.3                     | 0.0                       | 0.0         | 0.0        | 1017       | 0.7           | 2.0 | 3.84                        | 0.2          |
|                         | WS3           | 0.0                       | 0.2                       | 19.8                     | 0.0                       | 0.0         | 0.0        | 1017       | 1.2           | 4.0 | 4.66                        | 0.1          |

**Note:** Zero reading = below the equipment detection limit. Published barometric pressure trend data were obtained for each monitoring visit (data from Tadley weather station). >>> denotes value exceeds equipment detection limit.

## Trial Hole Location Plan

