



The Sizewell C Project

6.3 Volume 2 Main Development Site Chapter 19 Groundwater and Surface Water Appendix 19B: Sizewell C Conceptual Site Model of the Hydrogeological Regime Part 5 of 5

Revision: 1.0
Applicable Regulation: Regulation 5(2)(a)
PINS Reference Number: EN010012

May 2020

Planning Act 2008
Infrastructure Planning (Applications: Prescribed
Forms and Procedure) Regulations 2009



Chart 7A: Groundwater Levels Within C3 Boreholes and Neighbouring Peat Piezometers, 2015

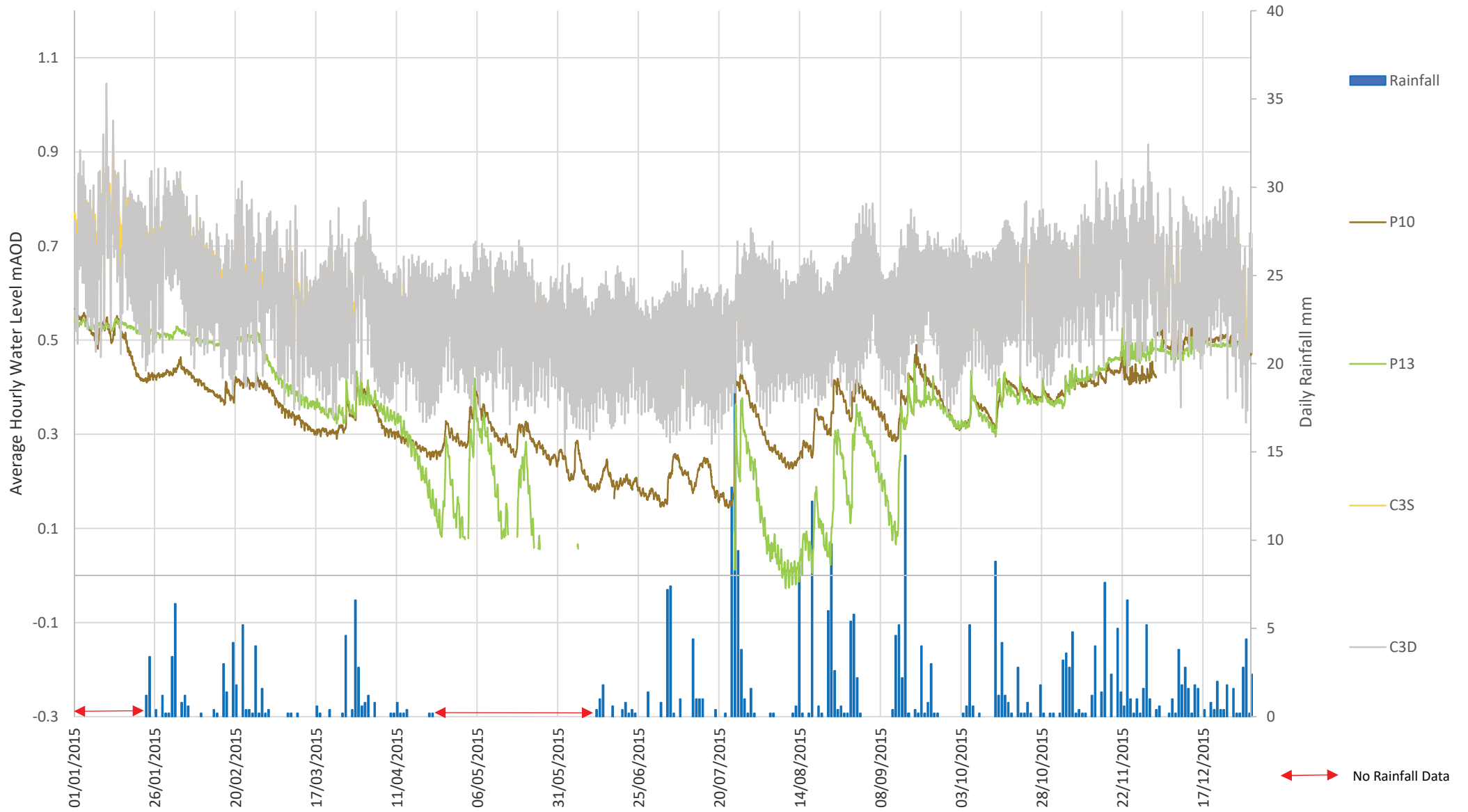


Chart 7B: Groundwater Levels Within C3 Boreholes and Neighbouring Peat Piezometers, 2016

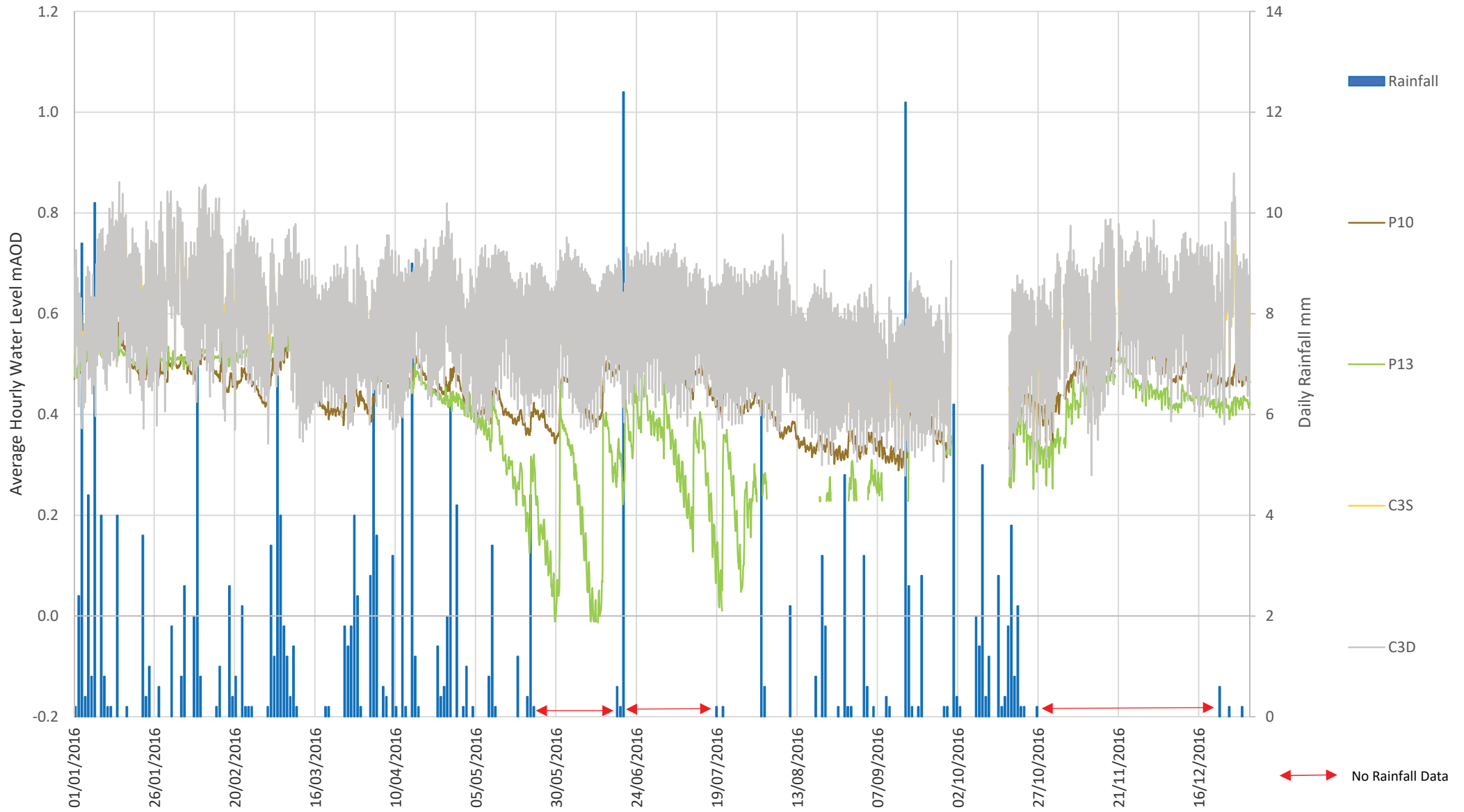


Chart . CB: rounGd ater LevelWithin C6 s oreholewanG Neighbouring Peat Piezometerw 402.

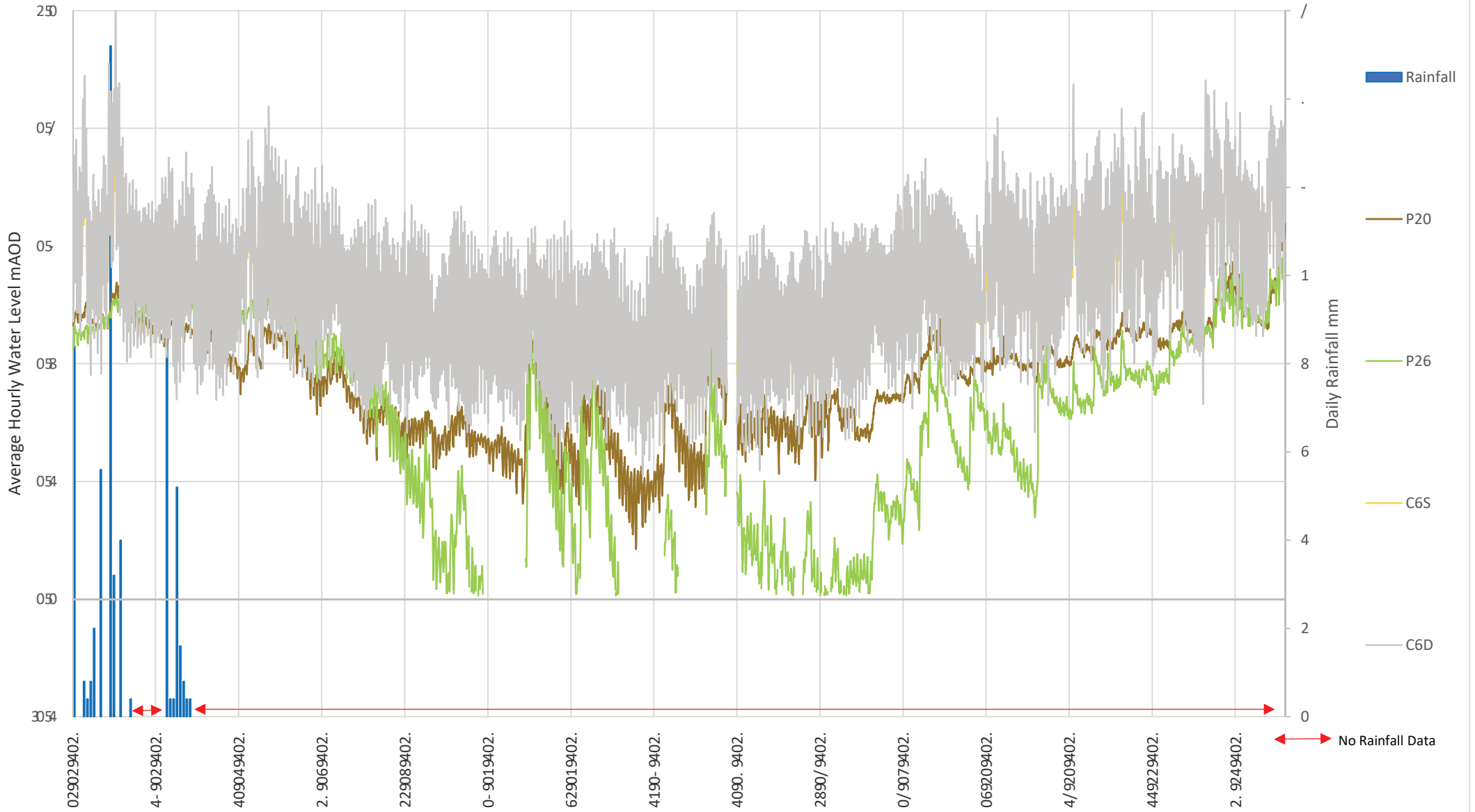


Chart 3DB: rounGd ater LevelWithin C5 s oreholewanG Neighbouring Peat Piezometerw 40- 1

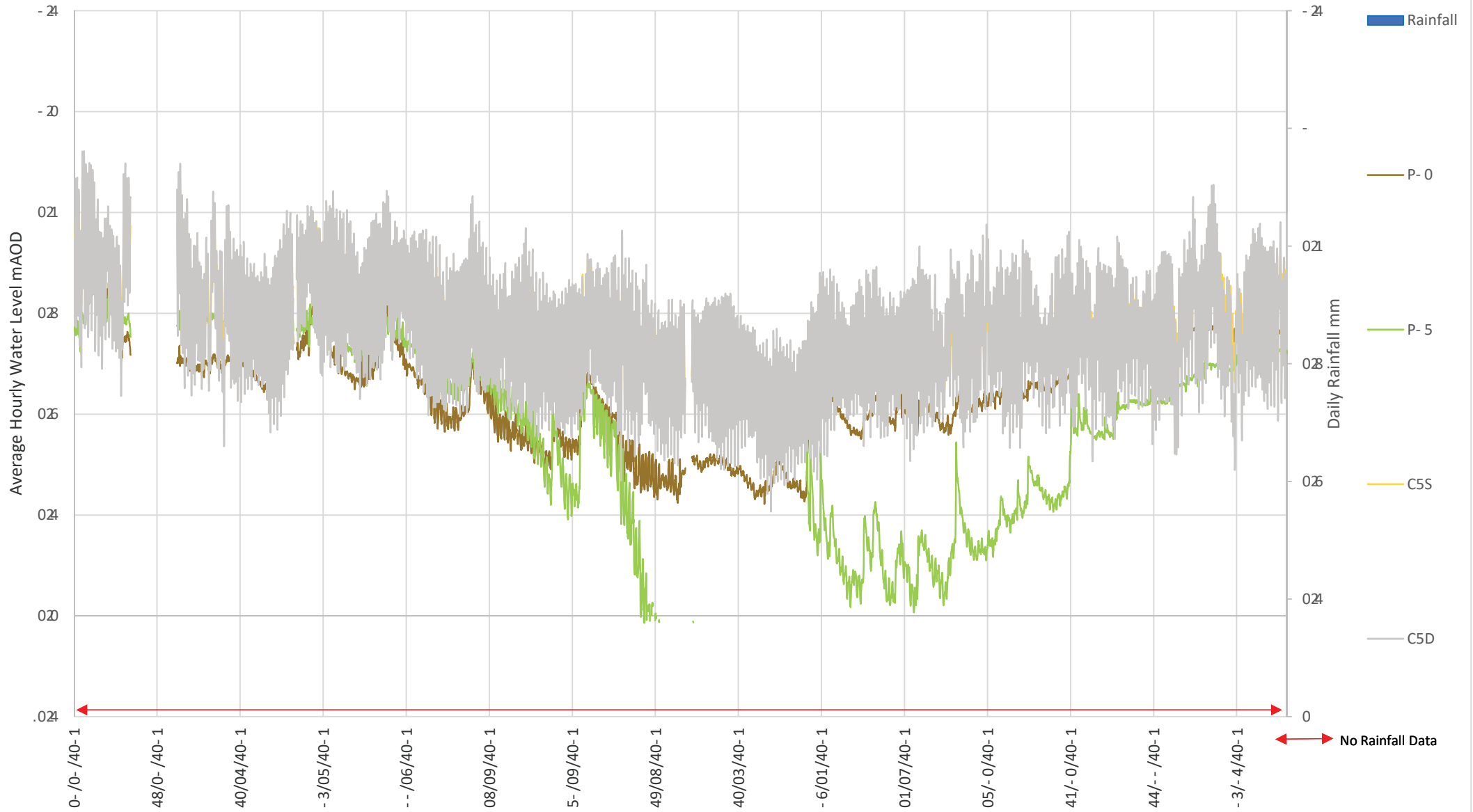


Chart 7E: Groundwater Levels Within C3 Boreholes and Neighbouring Peat Piezometers, 2019

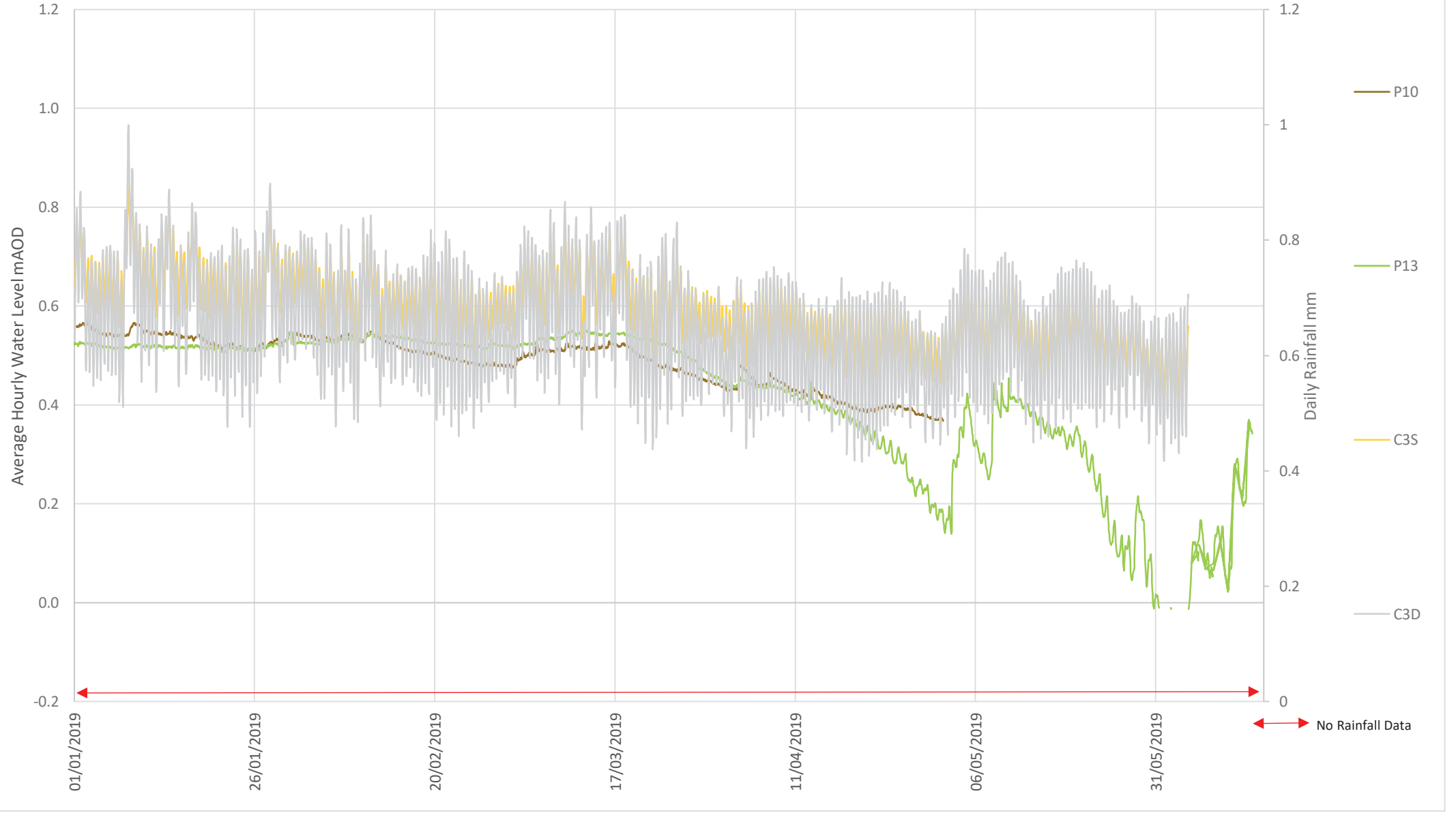
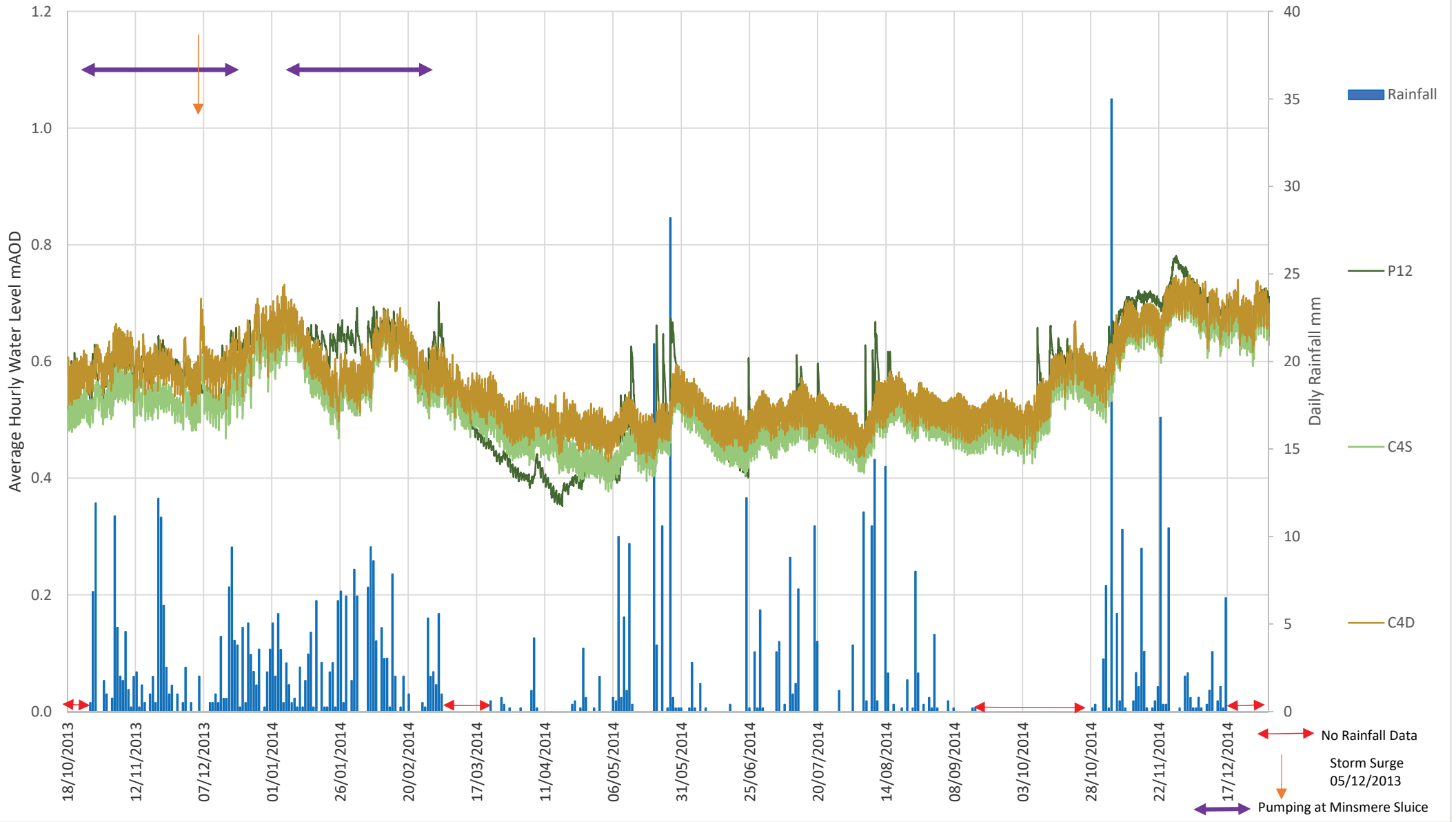


Chart 8: Groundwater Levels Within C4 Boreholes and Neighbouring Peat Piezometers, October 2013 to December 2014



This Chart supersedes Chart 8 in the 2015 CSM Report

Chart 8A: Groundwater Levels Within C4 Boreholes and Neighbouring Peat Piezometers, 2015

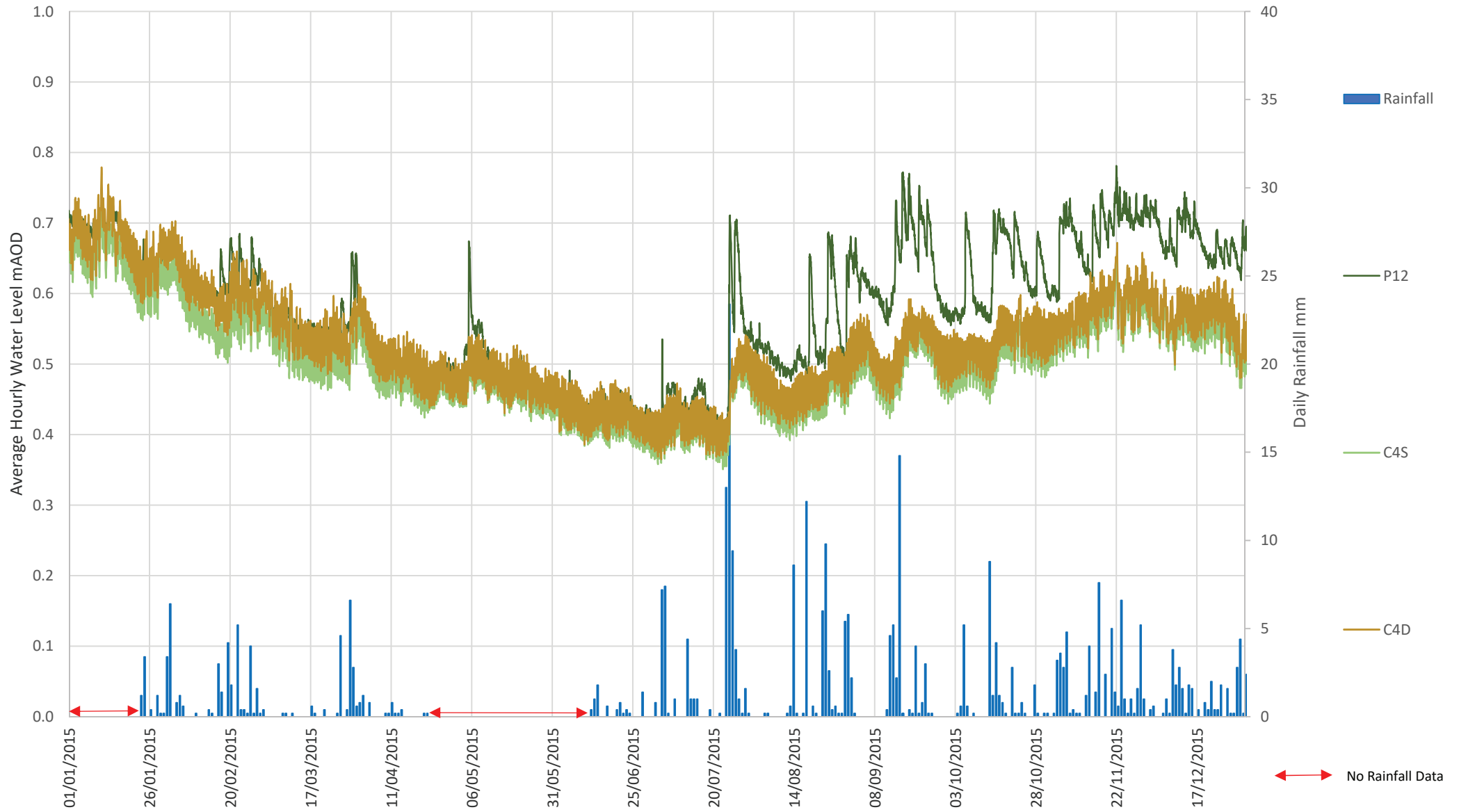


Chart 8B: Groundwater Levels Within C4 Boreholes and Neighbouring Peat Piezometers, 2016

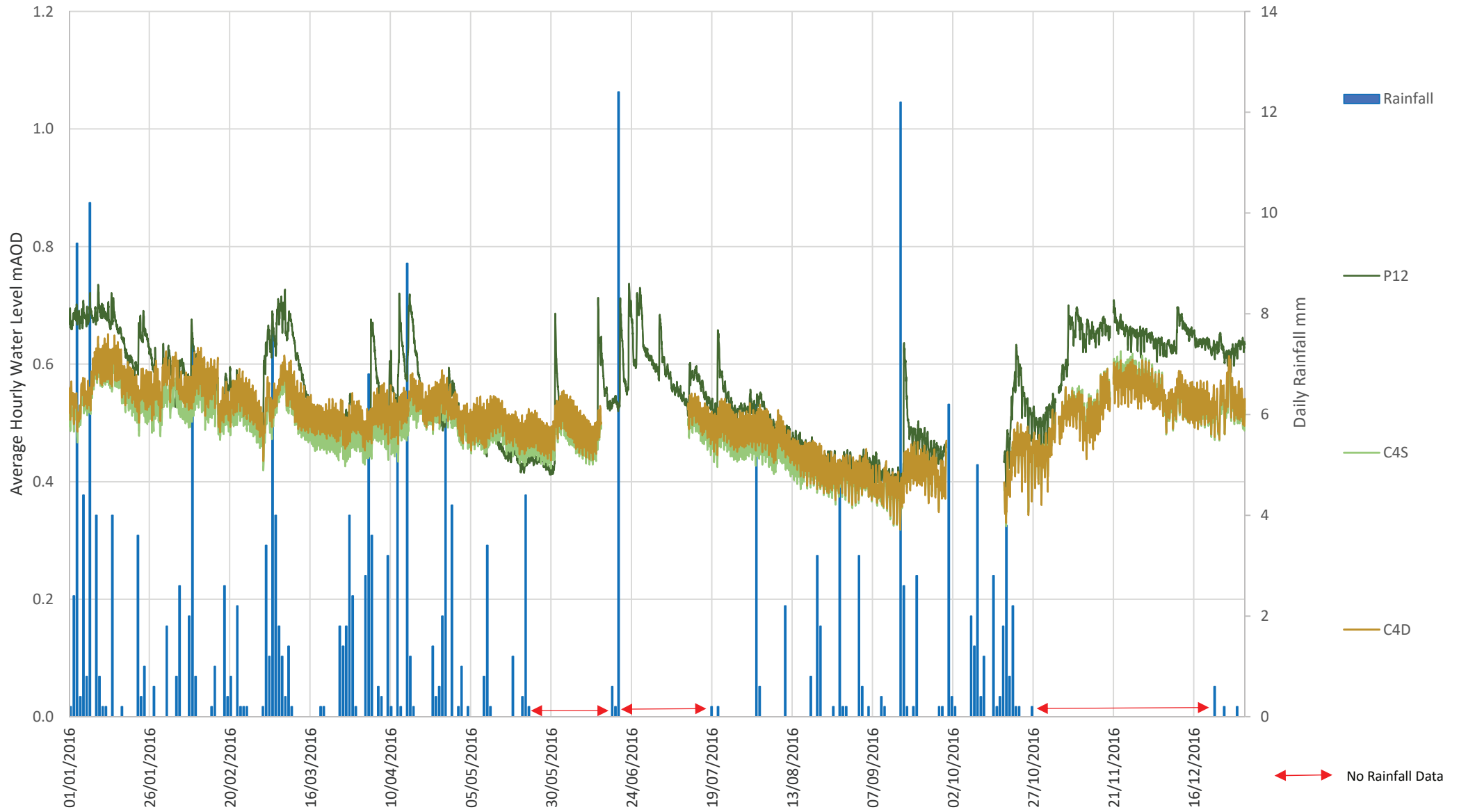


Chart 3CB: rounGd ater LevelWithin C8 s oreholewanG Neighbouring Peat Piezometry 402/

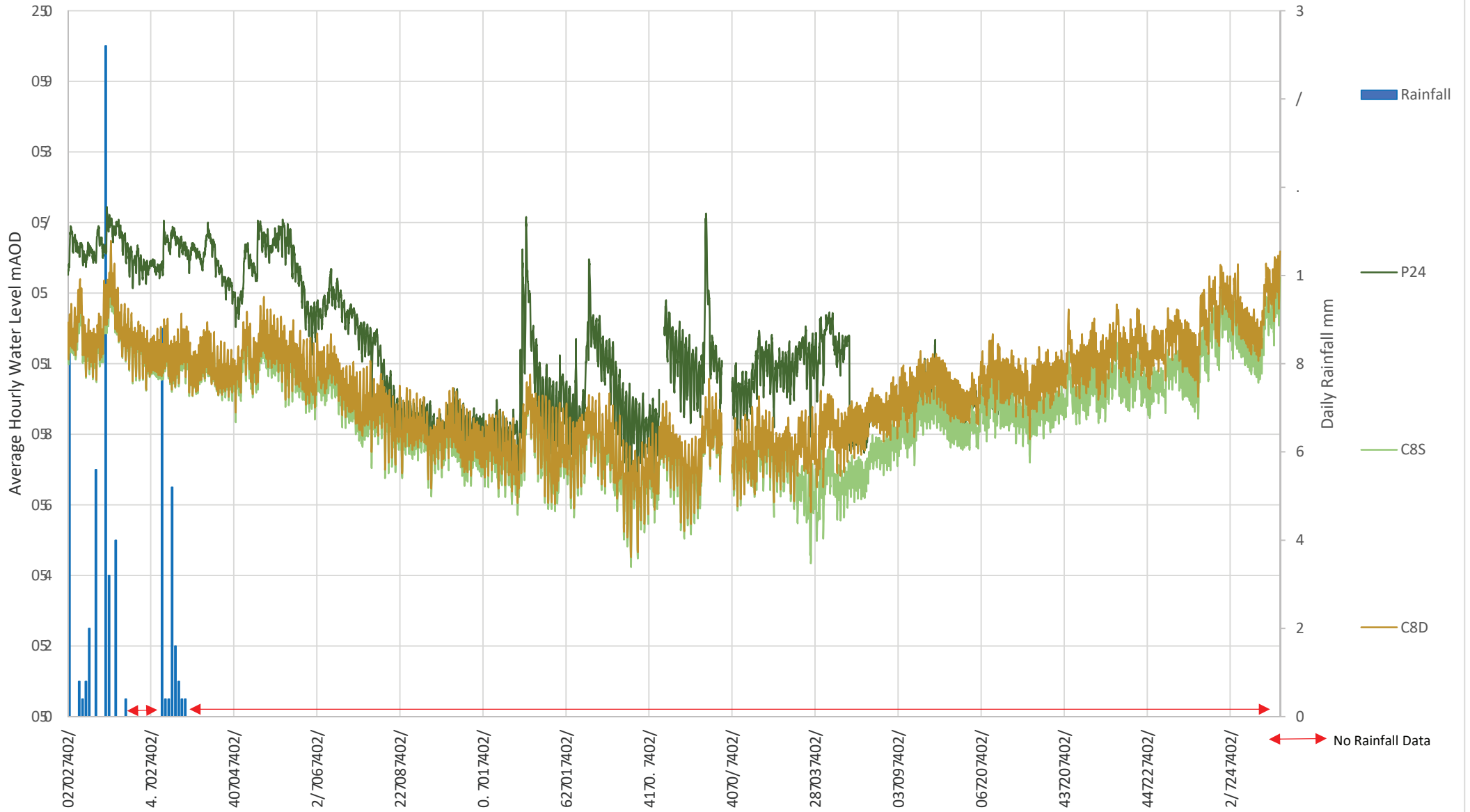


Chart 1DB: rounGd ater LevelWithin C6 s oreholewanG Neighbouring Peat Piezometerw 40- 1

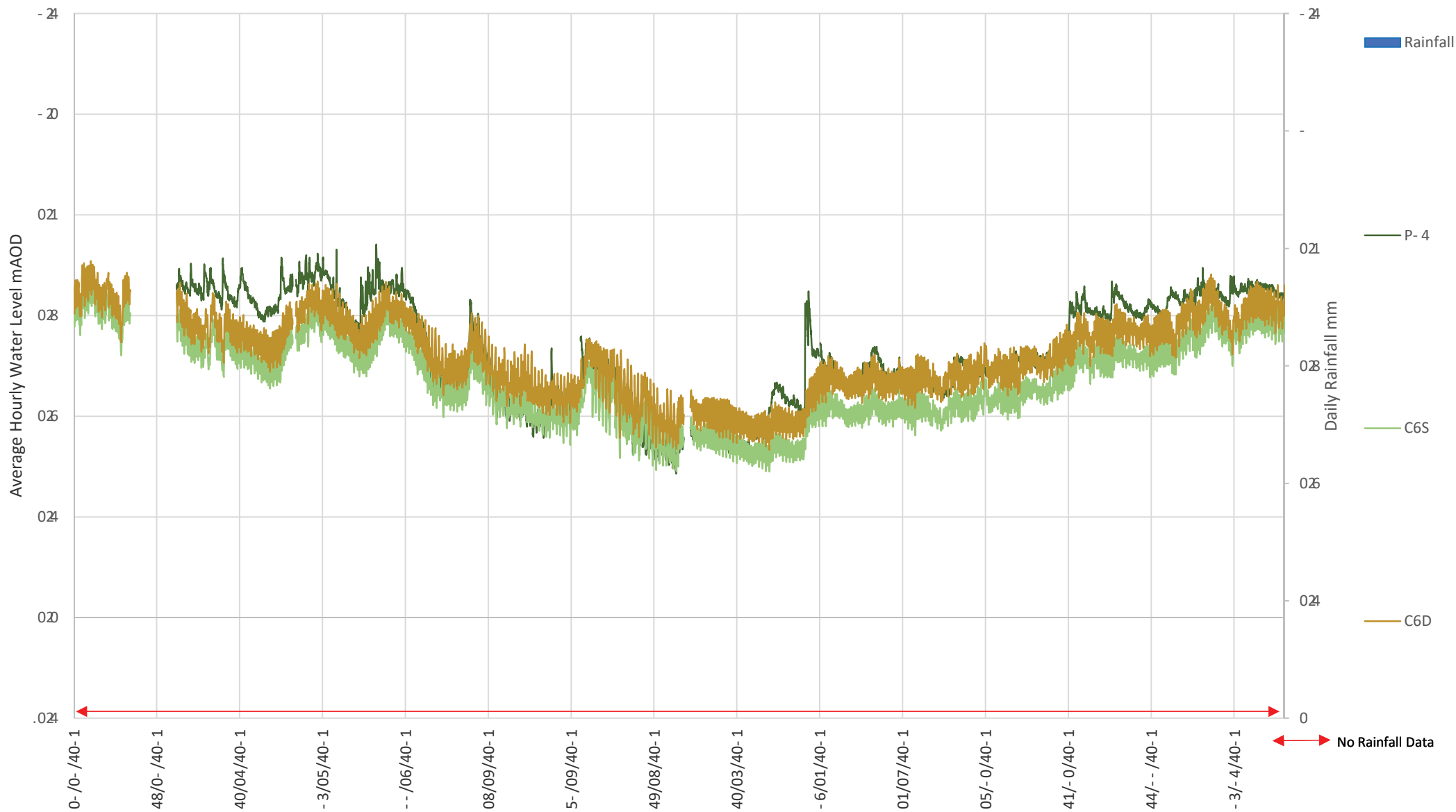
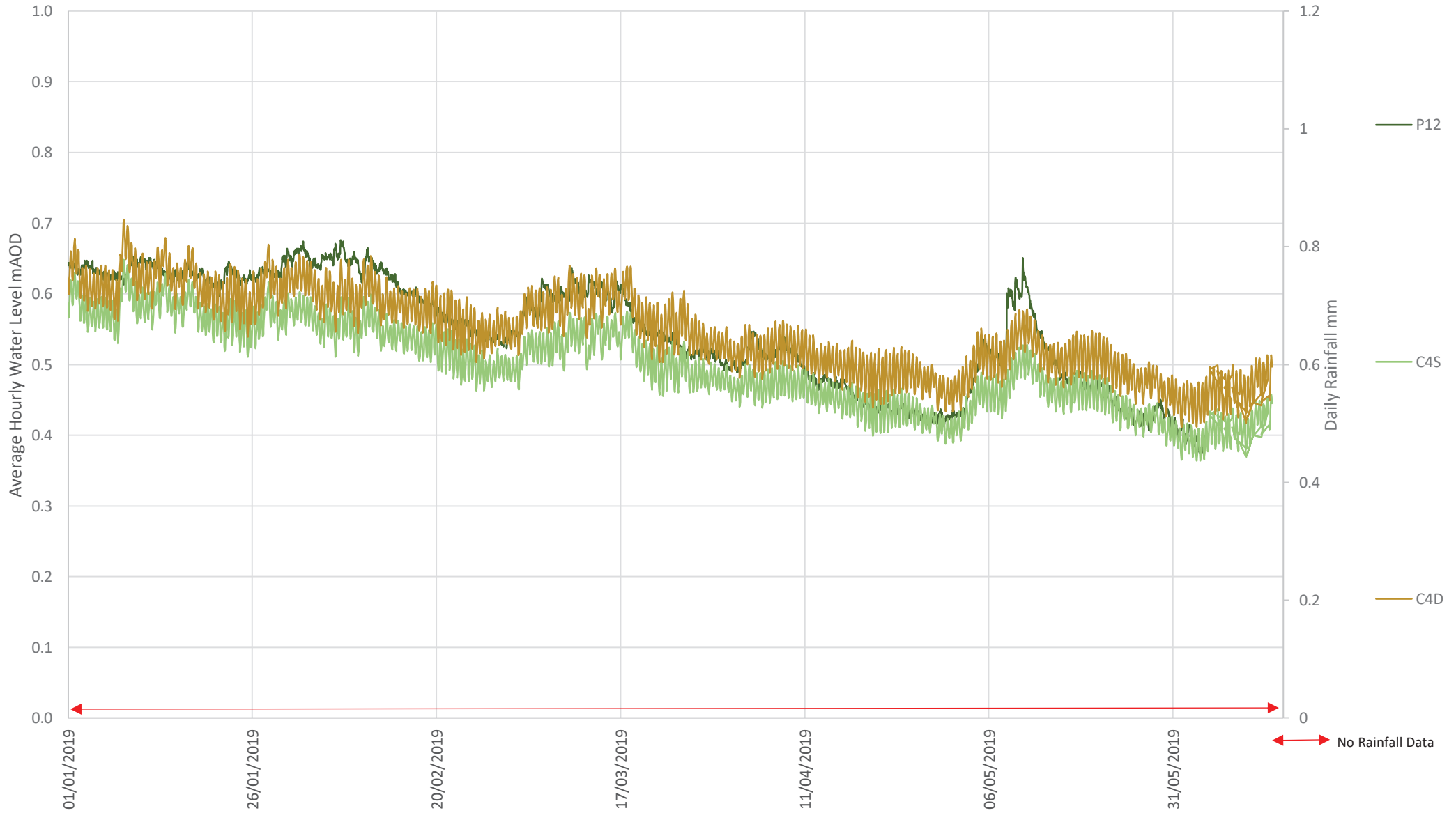
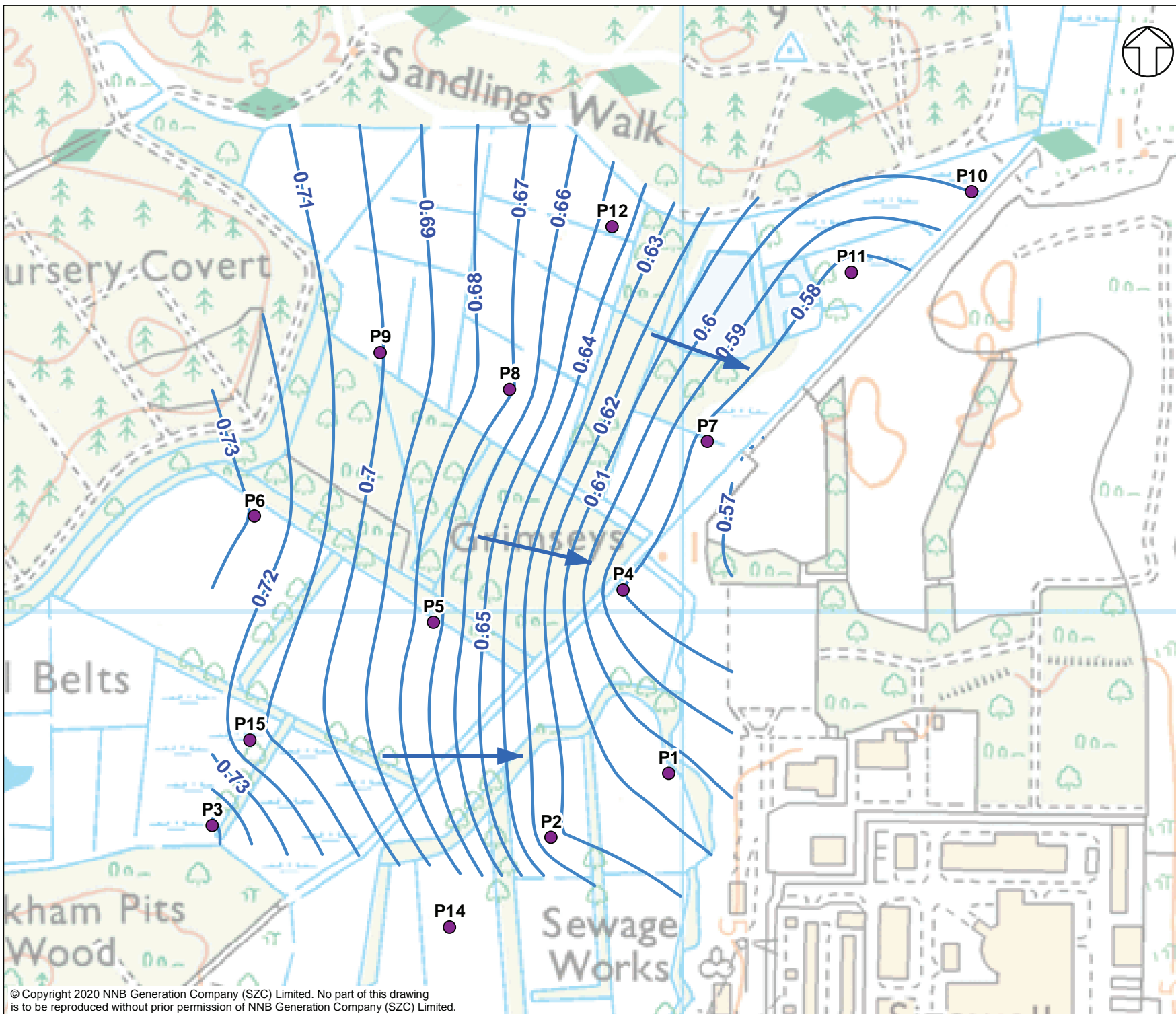


Chart 8E: Groundwater Levels Within C4 Boreholes and Neighbouring Peat Piezometers, 2019





NOTES
 THIS FIGURE SUPERSEDES DRAWING 5129919/SZC/201 IN THE 2015 CSM REPORT
 PEAT CONTOURS ARE CONSTRAINED TO THE EXTENT OF THE PEAT DEPOSITS.

KEY
 ● 2013 PEAT PIEZOMETERS
 — WATER LEVEL IN PEAT MONITORING BOREHOLES (MAOD)
 → GROUNDWATER FLOW DIRECTION

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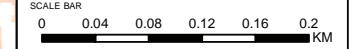


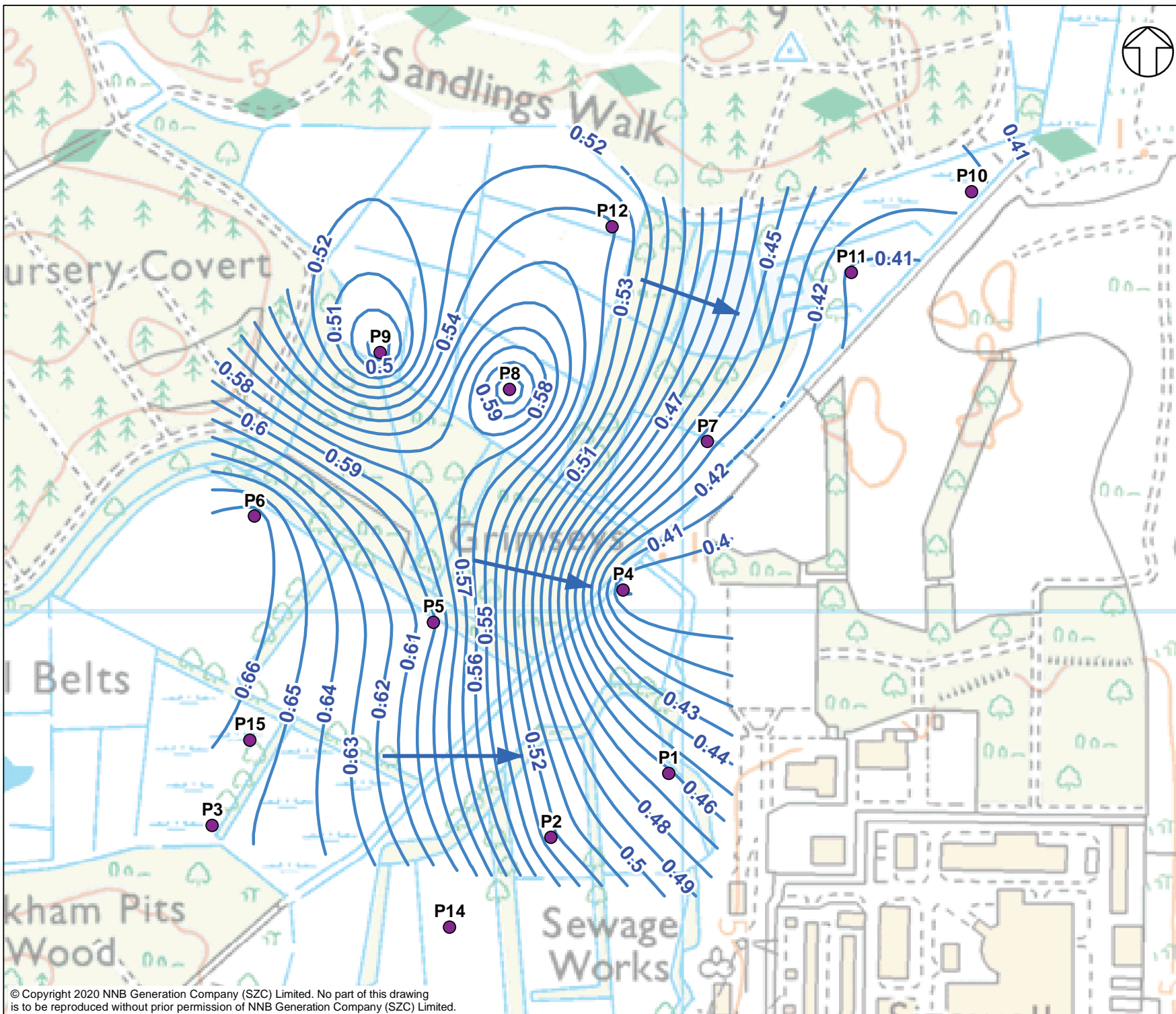
Project Title:
 SIZEWELL C PROJECT
 ENVIRONMENTAL STATEMENT
 VOLUME 2
 CHAPTER 19B1
 GROUNDWATER AND SURFACE WATER APPENDIX B1

DRAWING TITLE:
 GROUNDWATER IN PEAT DEPOSITS DURING PUMPING AT MINSMERE SLUICE (07/01/2014)

DRAWING NO:
FIGURE 19B.1.1

DATE: JAN 2020 DRAWN: S.R.H SCALE: 1:4,000 @A3





NOTES
 THIS FIGURE SUPERSEDES DRAWING 5129919/SZC/202 IN THE 2015 CSM REPORT
 PEAT CONTOURS ARE CONSTRAINED TO THE EXTENT OF THE PEAT DEPOSITS.

KEY
 ● 2013 PEAT PIEZOMETERS
 — WATER LEVEL IN PEAT MONITORING BOREHOLES (MAOD)
 → GROUNDWATER FLOW DIRECTION

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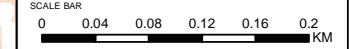
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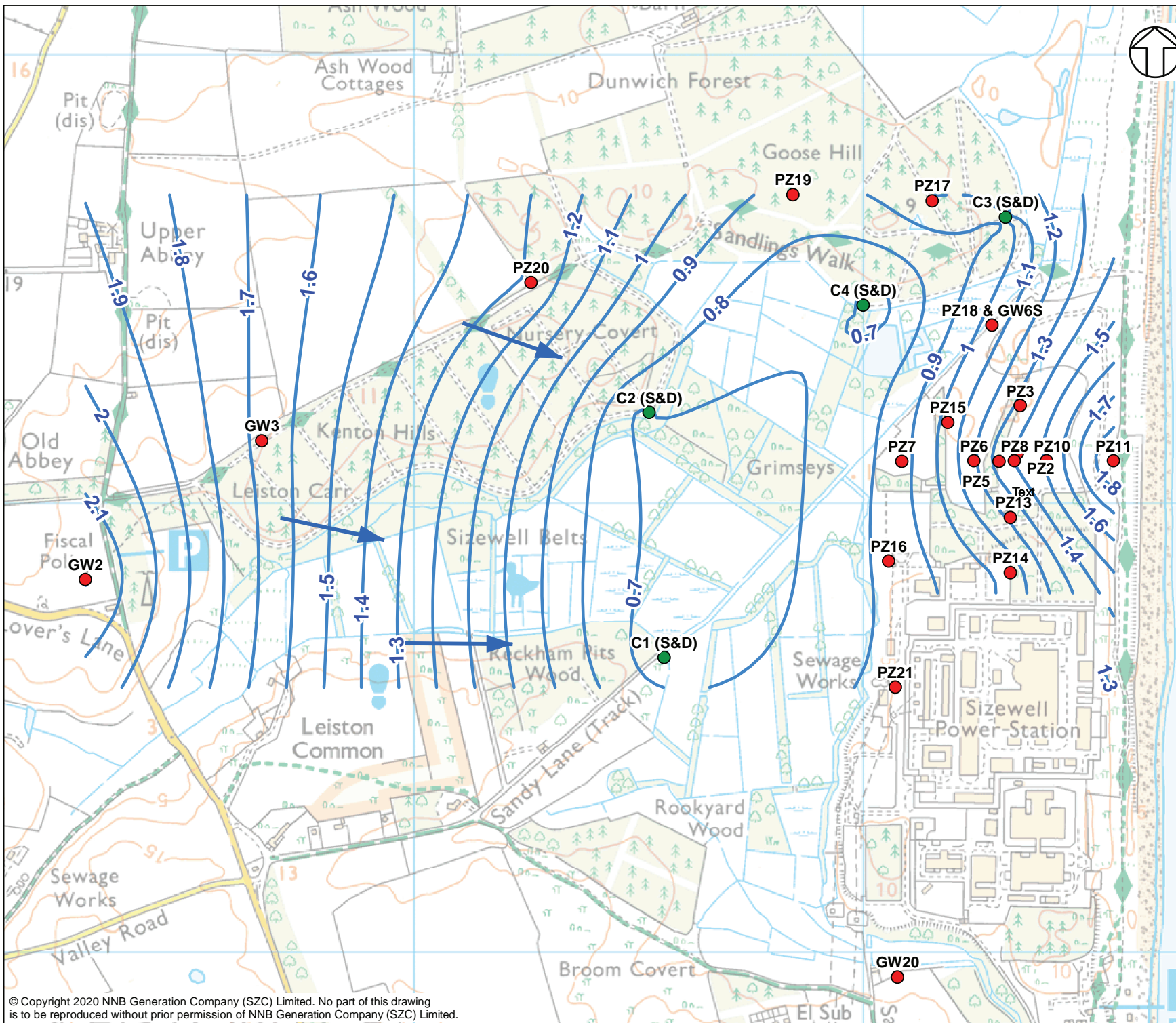


Project Title:
 SIZEWELL C PROJECT
 ENVIRONMENTAL STATEMENT
 VOLUME 2
 CHAPTER 19B1
 GROUNDWATER AND SURFACE WATER APPENDIX B1

DRAWING TITLE:
 GROUNDWATER IN PEAT DEPOSITS POST PUMPING AT MINSMERE SLUICE (01/06/2014)

DRAWING NO.:
 FIGURE 19B 1.2
DATE: JAN 2020 **DRAWN:** S.R.H **SCALE:** 1:4,000 @A3





NOTES
 THIS FIGURE SUPERSEDES DRAWING 5129919/SZC/203 IN THE 2015 CSM REPORT

KEY

- 2013 BHs with loggers
- 2010 BHs with loggers
- WATER LEVEL IN CRAG MONITORING BOREHOLES (MAOD)
- GROUNDWATER FLOW DIRECTION

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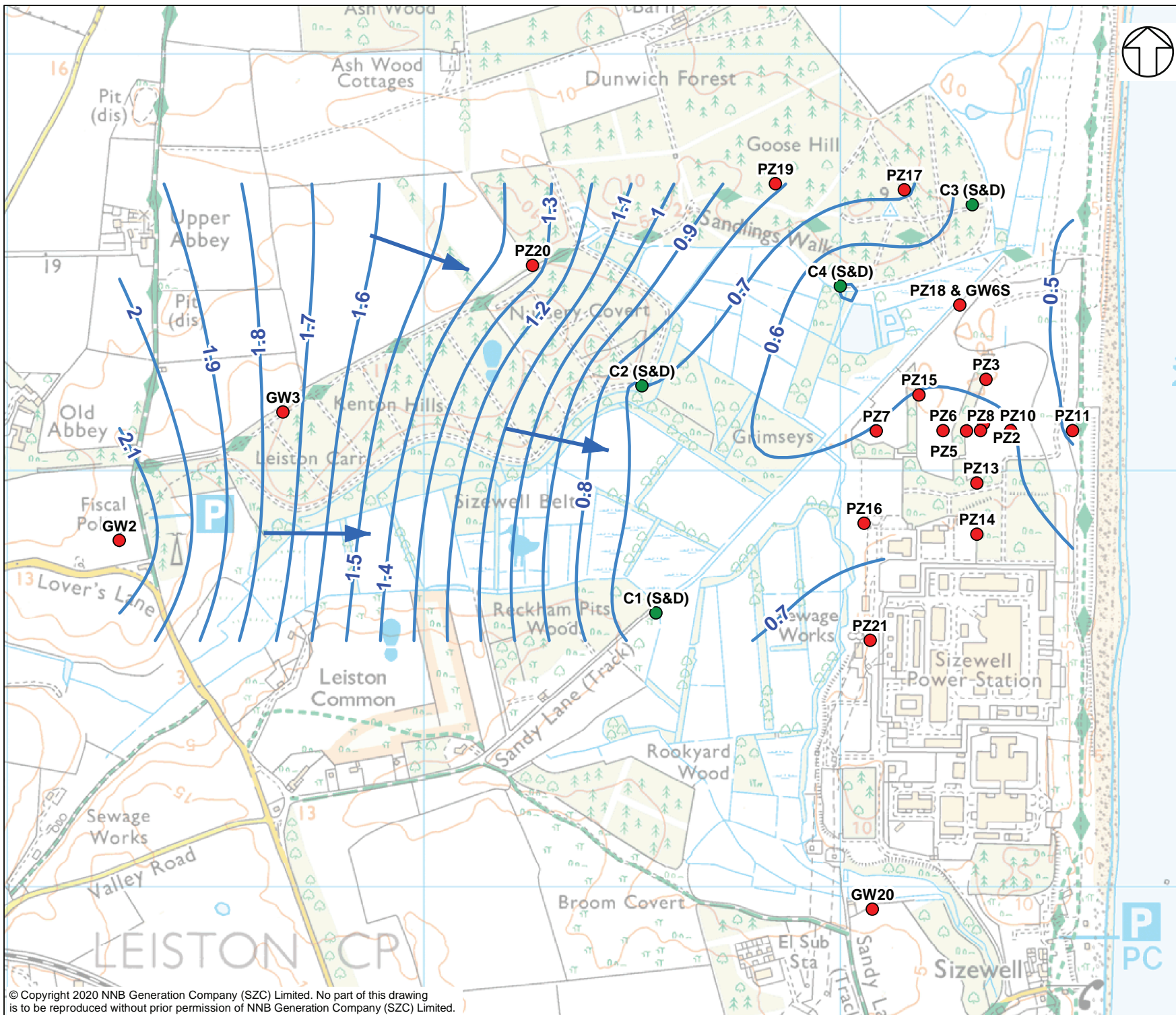
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 ENVIRONMENTAL STATEMENT
 VOLUME 2
 CHAPTER 19B1
 GROUNDWATER AND SURFACE WATER APPENDIX B1

DRAWING TITLE:
 GROUNDWATER CONTOURS IN CRAG AQUIFER DURING STORM SURGE (06/12/2013)

DRAWING NO:
 FIGURE 19B 1.3

DATE: JAN 2020 DRAWN: S.R.H. SCALE: 1:8,079 @A3

SCALE BAR
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 KM



- NOTES**
 THIS FIGURE SUPERSEDES DRAWING 5129919/SZC/204 IN THE 2015 CSM REPORT
- KEY**
- 2013 BHs with loggers
 - 2010 BHs with loggers
 - WATER LEVEL IN CRAG MONITORING BOREHOLES (MAOD)
 - GROUNDWATER FLOW DIRECTION

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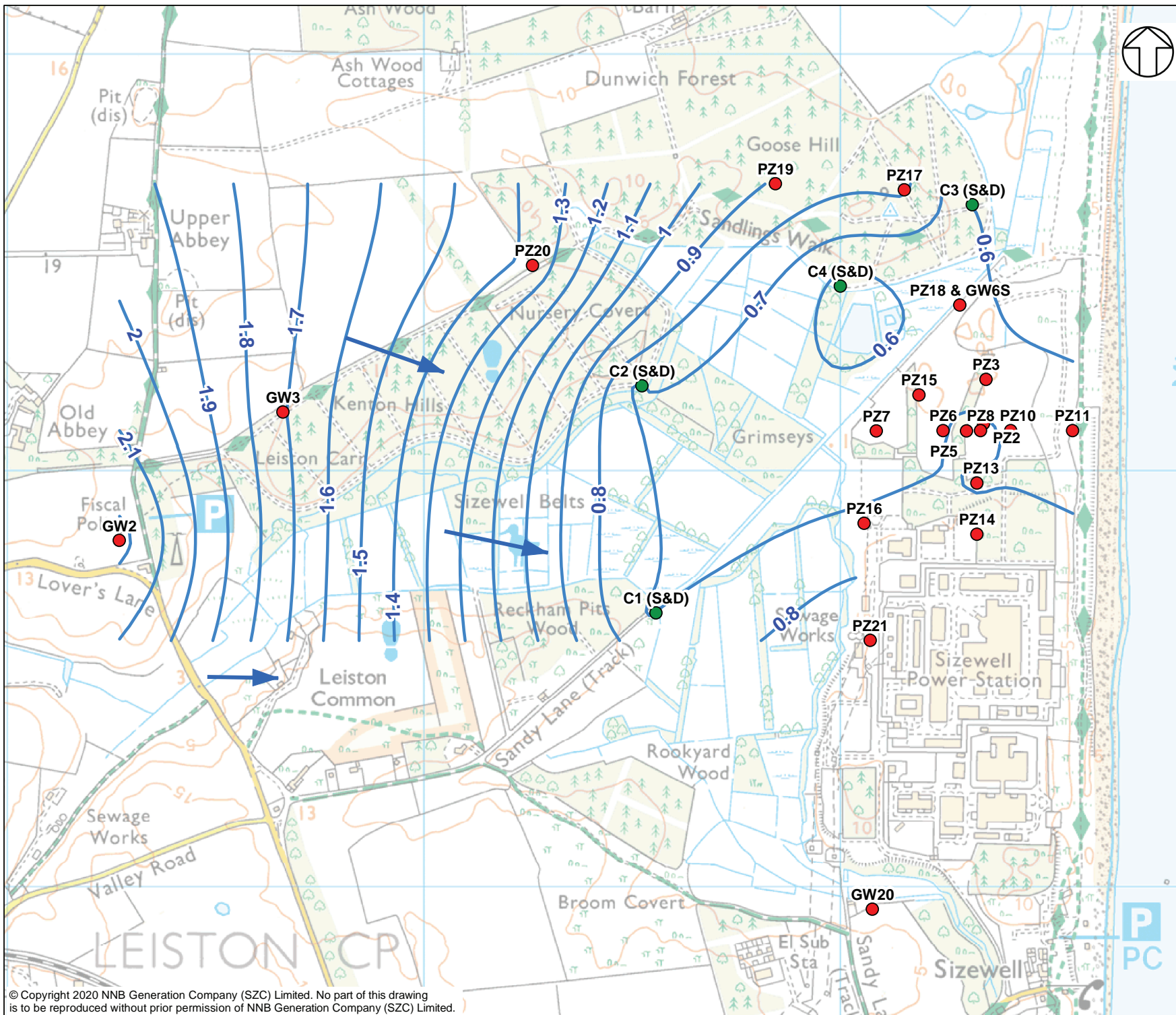
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 VOLUME 2
 CHAPTER 19B1
 GROUNDWATER AND SURFACE WATER APPENDIX B1

DRAWING TITLE:
 GROUNDWATER CONTOURS IN CRAG AQUIFER DURING NORMAL CONDITIONS (11/06/2014)

DRAWING NO: FIGURE 19B 1.4		
DATE: JAN 2020	DRAWN: S.R.H	SCALE: 1:8,653 @A3
SCALE BAR 0 0.085 0.17 0.255 0.34 0.425 KM		



NOTES
 THIS FIGURE SUPERSEDES DRAWING
 5129919/SZC/205 IN THE 2015 CSM REPORT

- KEY**
- 2013 BHs with loggers
 - 2010 BHs with loggers
 - WATER LEVEL IN CRAG MONITORING BOREHOLES (MAOD)
 - GROUNDWATER FLOW DIRECTION

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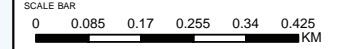
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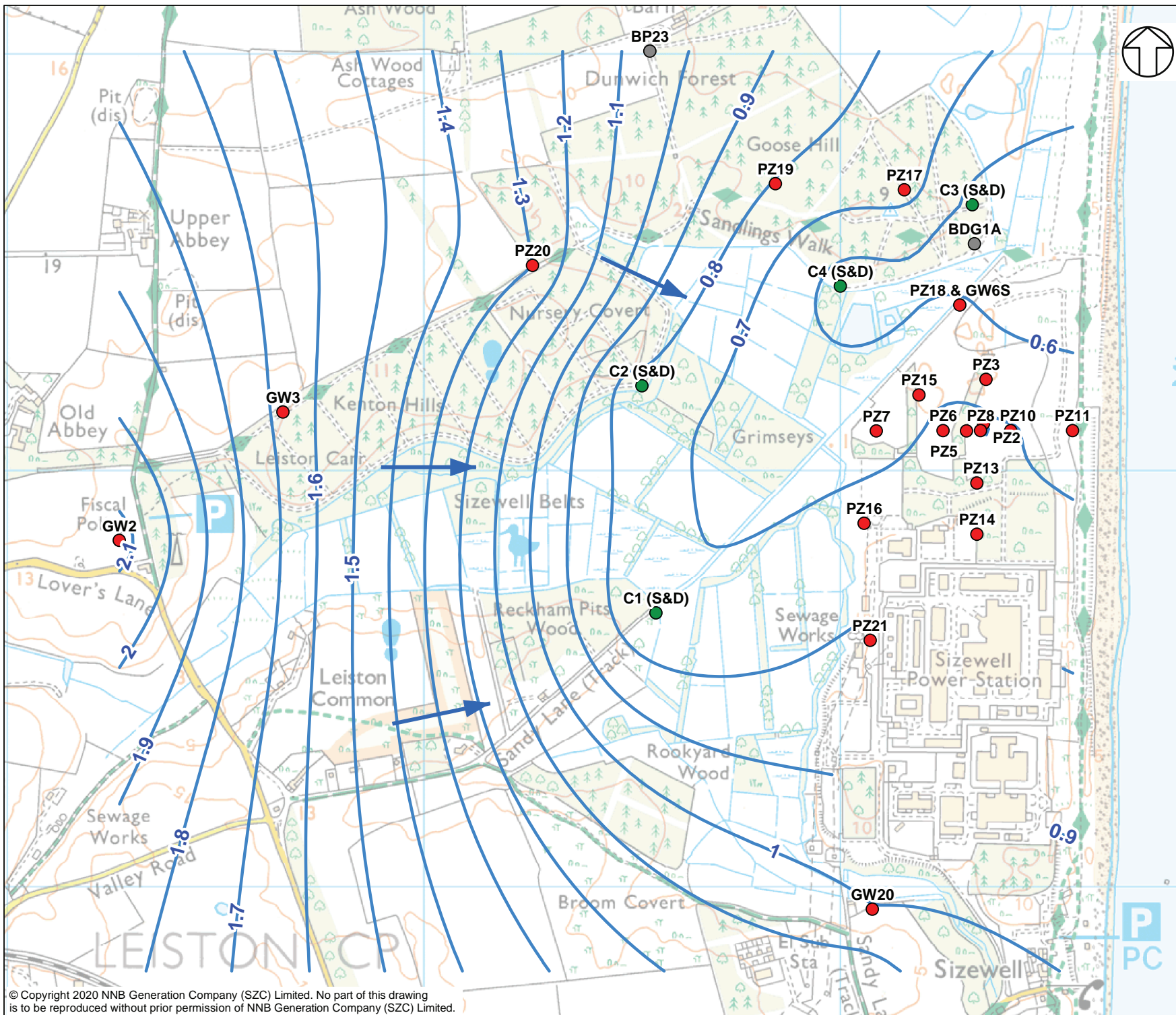


Project Title:
 SIZEWELL C PROJECT
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 VOLUME 2
 CHAPTER 19B1
 GROUNDWATER AND SURFACE WATER APPENDIX B1

DRAWING TITLE:
 GROUNDWATER CONTOURS IN CRAG AQUIFER DURING PUMPING AT SLUICE (28/02/2014)

DRAWING NO:
 FIGURE 19B 1.5
 DATE: JAN 2020 DRAWN: S.R.H SCALE: 1:8,657 @A3





NOTES
 THIS FIGURE SUPERSEDES DRAWING 5129919/SZC/206 IN THE 2015 CSM REPORT

KEY

- 2014 BHs WITH LOGGERS
- 2013 BHs with loggers
- 2010 BHs with loggers
- WATER LEVEL IN CRAG MONITORING BOREHOLES (MAOD)
- GROUNDWATER FLOW DIRECTION

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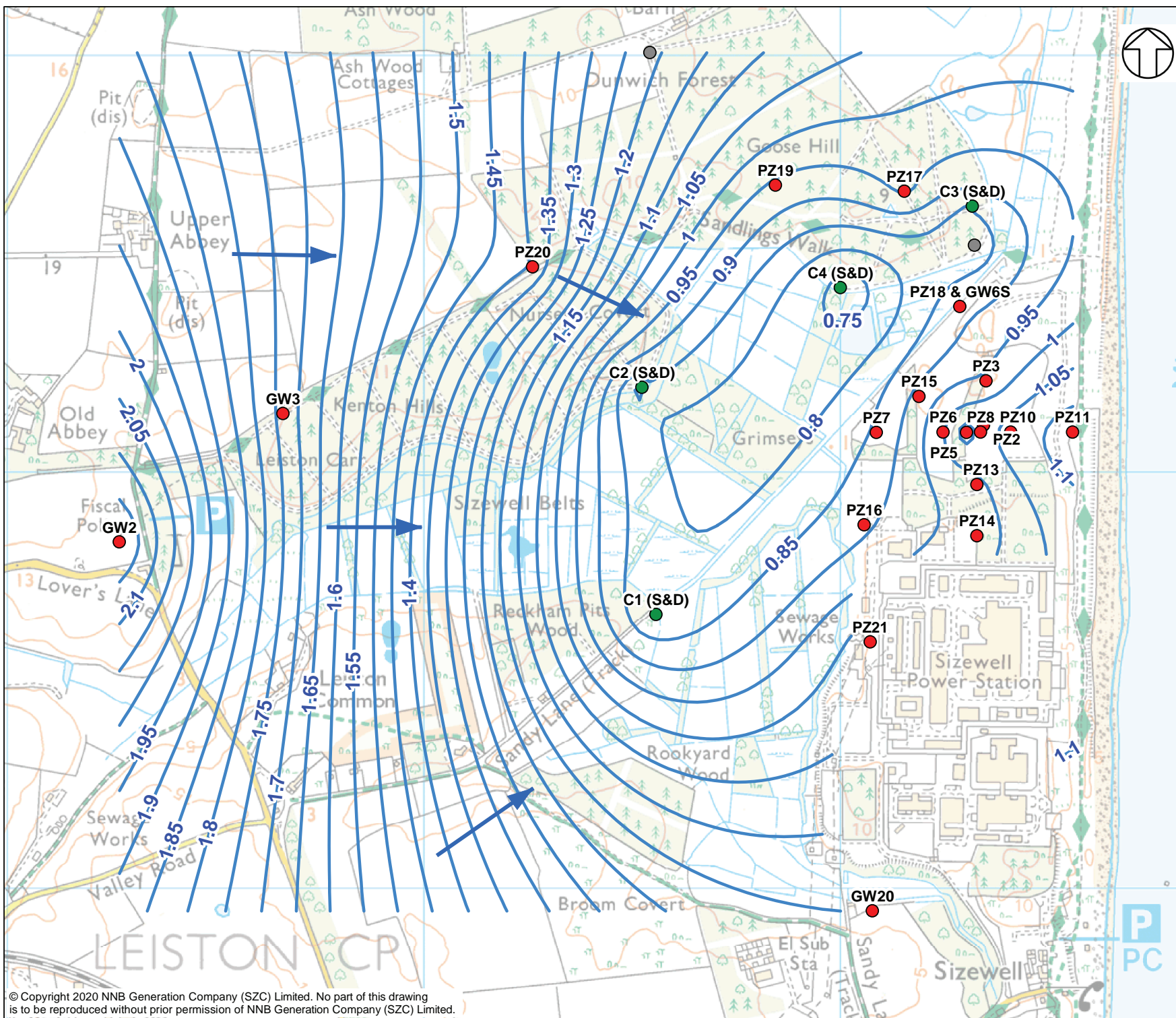
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 VOLUME 2
 CHAPTER 19B1
 GROUNDWATER AND SURFACE WATER APPENDIX B1

DRAWING TITLE:
 GROUNDWATER CONTOURS IN CRAG AQUIFER DURING MID TIDAL CYCLE (14/10/2014)

DRAWING NO:
 FIGURE 19B 1.6

DATE: JAN 2020	DRAWN: S.R.H	SCALE: 1:8,653 @A3
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SCALE BAR
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NOTES
 THIS FIGURE SUPERSEDES DRAWING 5129919/SZC/207 IN THE 2015 CSM REPORT

KEY

- 2014 BHs with
- 2013 BHs with
- 2010 BHs with
- WATER LEVEL IN CRAG MONITORING BOREHOLES (MAOD)
- GROUNDWATER FLOW DIRECTION

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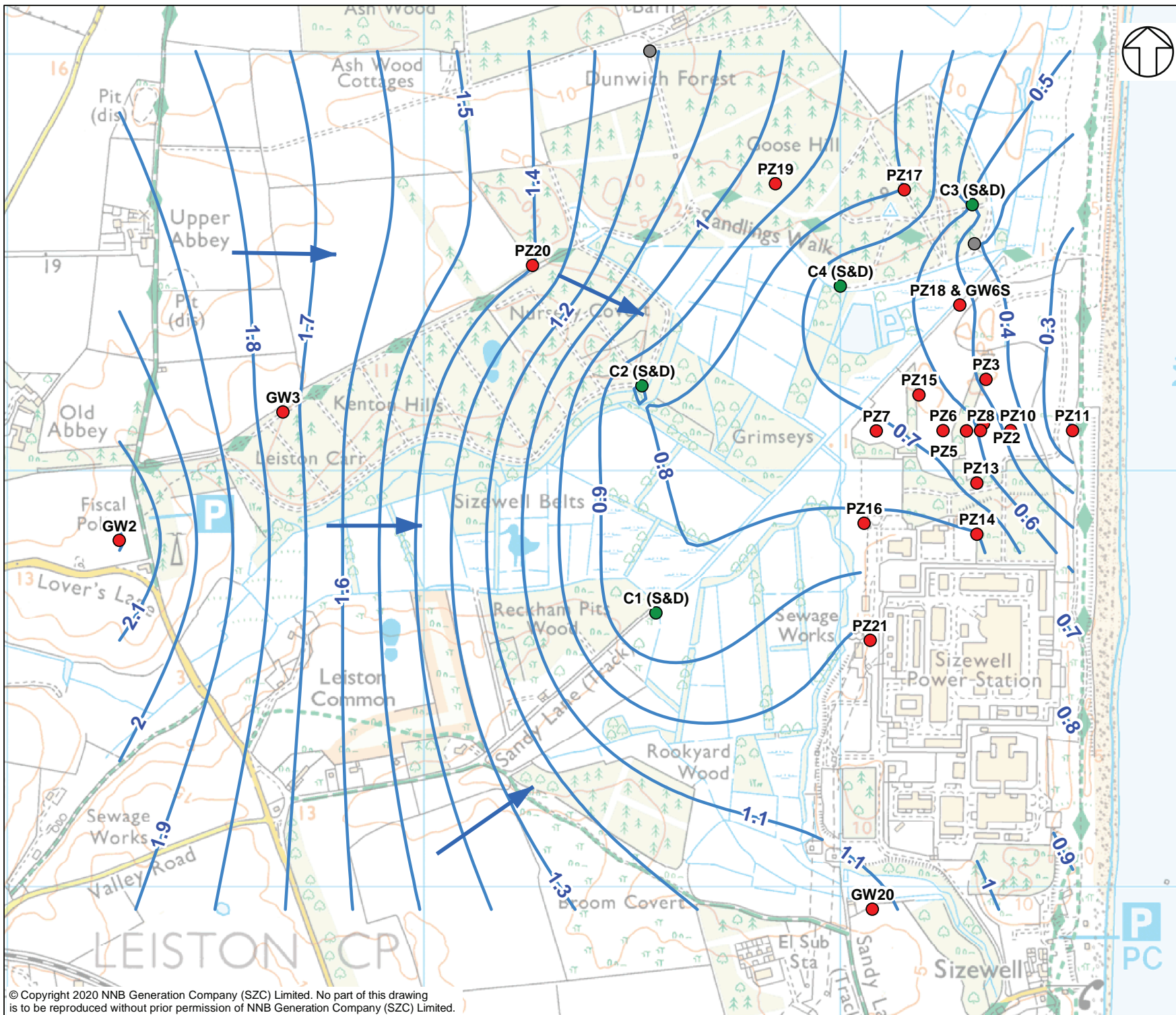
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 VOLUME 2
 CHAPTER 19B1
 GROUNDWATER AND SURFACE WATER APPENDIX B1

DRAWING TITLE:
 GROUNDWATER CONTOURS IN CRAG AQUIFER DURING LOW TIDE (09/12/2014)

DRAWING NO:
 FIGURE 19B 1.7

DATE: JAN 2020 DRAWN: S.R.H. SCALE: 1:8,650 @A3

SCALE BAR
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NOTES

THIS FIGURE SUPERSEDES DRAWING 5129919/SZC/208 IN THE 2015 CSM REPORT

KEY

- 2014 BHs with
- 2013 BHs with
- 2010 BHs with
- WATER LEVEL IN CRAG MONITORING BOREHOLES (MAOD)
- GROUNDWATER FLOW DIRECTION

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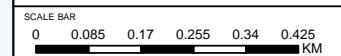


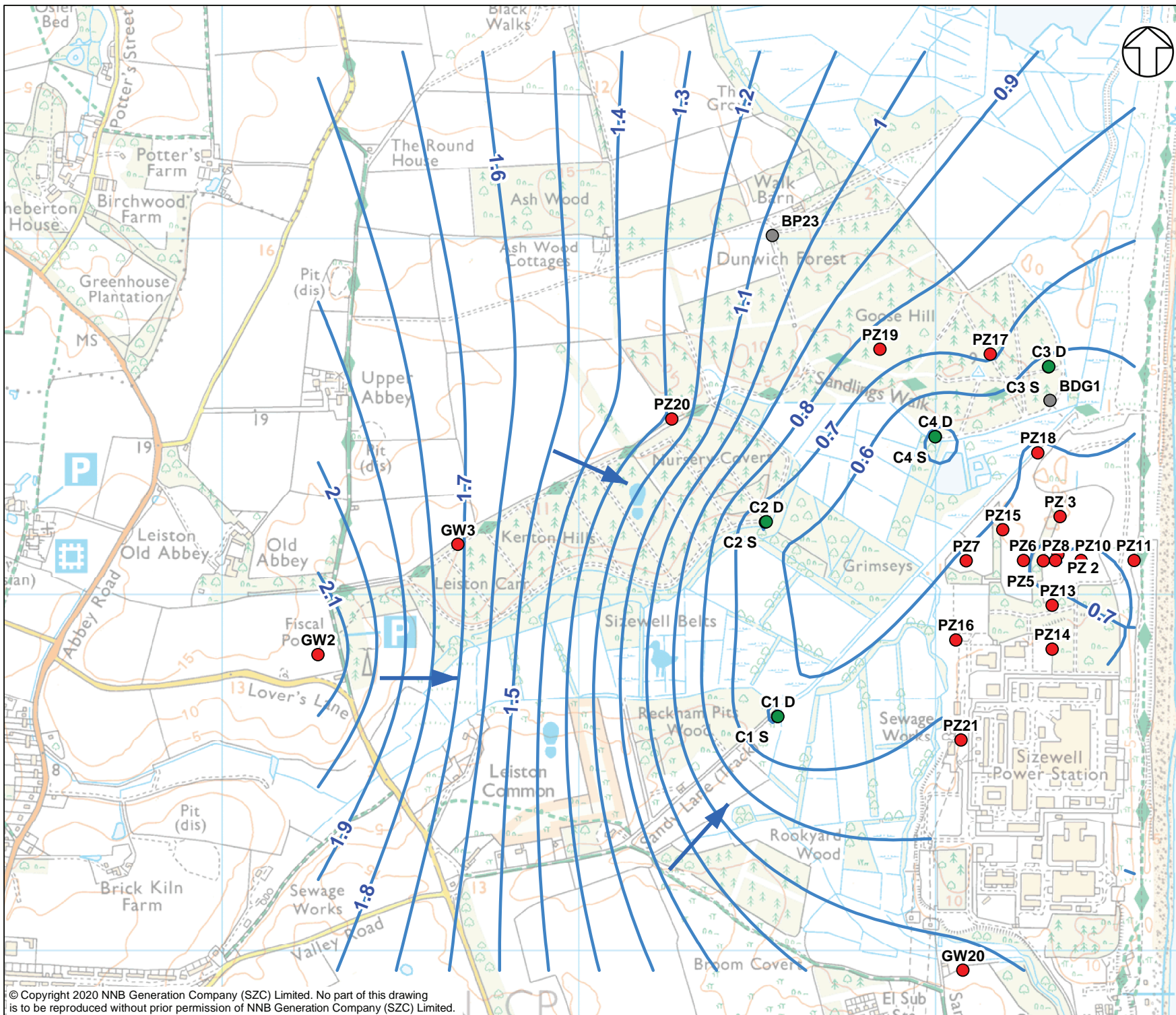
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 VOLUME 2
 CHAPTER 19B1
 GROUNDWATER AND SURFACE WATER APPENDIX B1

DRAWING TITLE:
 GROUNDWATER CONTOURS IN CRAG AQUIFER DURING HIGH TIDE (09/12/2014)

DRAWING NO:
 FIGURE 19B 1.8

DATE: JAN 2020 DRAWN: S.R.H. SCALE: 1:8,650 @A3





- NOTES**
 PEAT CONTOURS ARE CONSTRAINED TO THE EXTENT OF THE PEAT DEPOSITS
- KEY**
- 2010 BOREHOLES
 - 2013 BOREHOLES
 - 2014 BOREHOLES
 - GROUNDWATER CRAG CONTOURS (MAOD) - SUMMER 2015
 - GROUNDWATER FLOW DIRECTION

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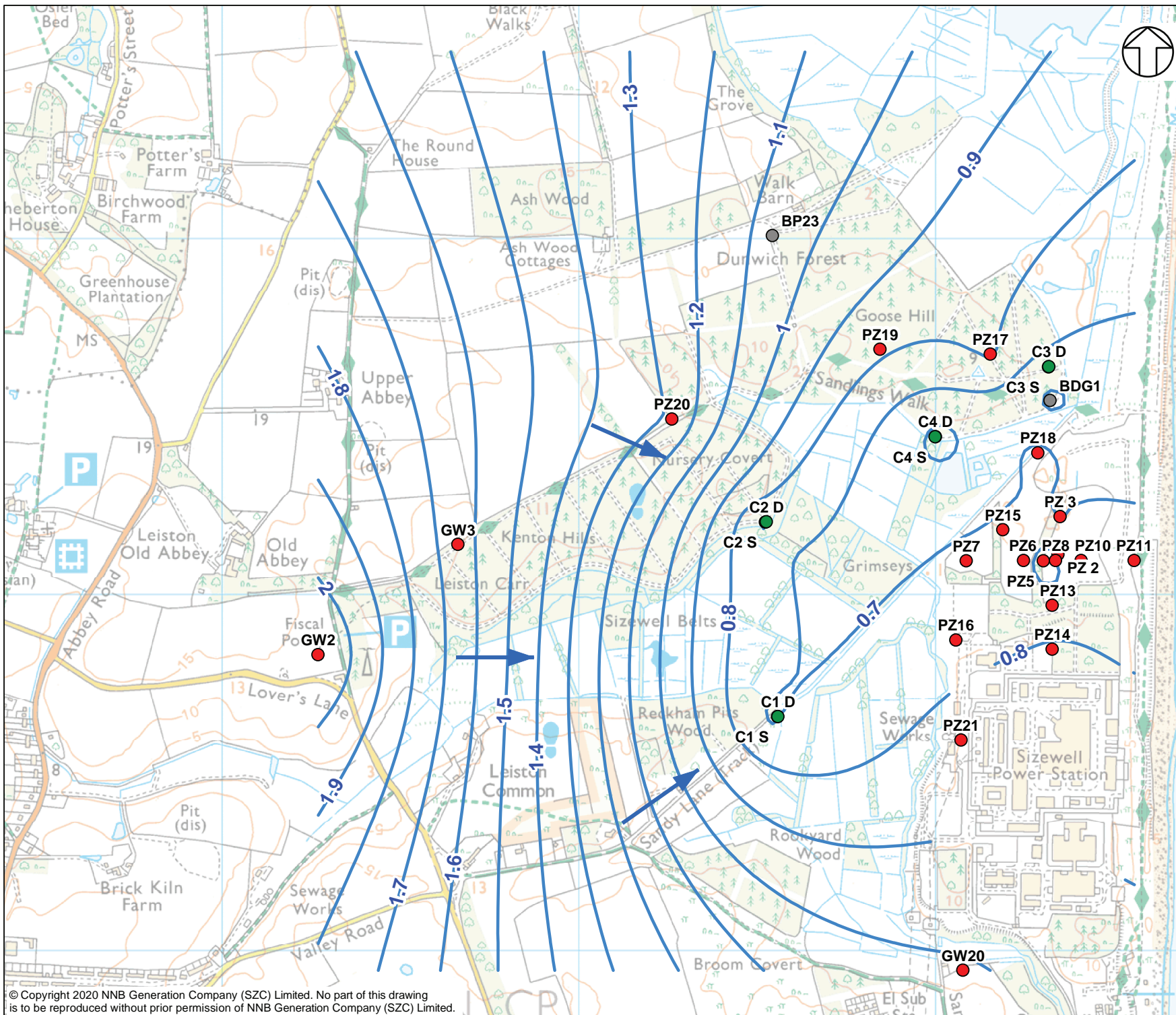
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DRAWING TITLE:
 GROUNDWATER CONTOURS IN CRAG AQUIFER DURING SUMMER 2015 (01/06/2015)

DRAWING NO:
 FIGURE 19B 1.9

DATE: JAN 2020	DRAWN: S.R.H	SCALE: 1:10,103 @A3
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SCALE BAR
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- NOTES**
 PEAT CONTOURS ARE CONSTRAINED TO THE EXTENT OF THE PEAT DEPOSITS
- KEY**
- 2010 BOREHOLES
 - 2013 BOREHOLES
 - 2014 BOREHOLES
 - GROUNDWATER CRAG CONTOURS (MAOD) - WINTER 2015
 - GROUNDWATER FLOW DIRECTION

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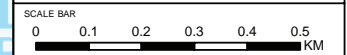


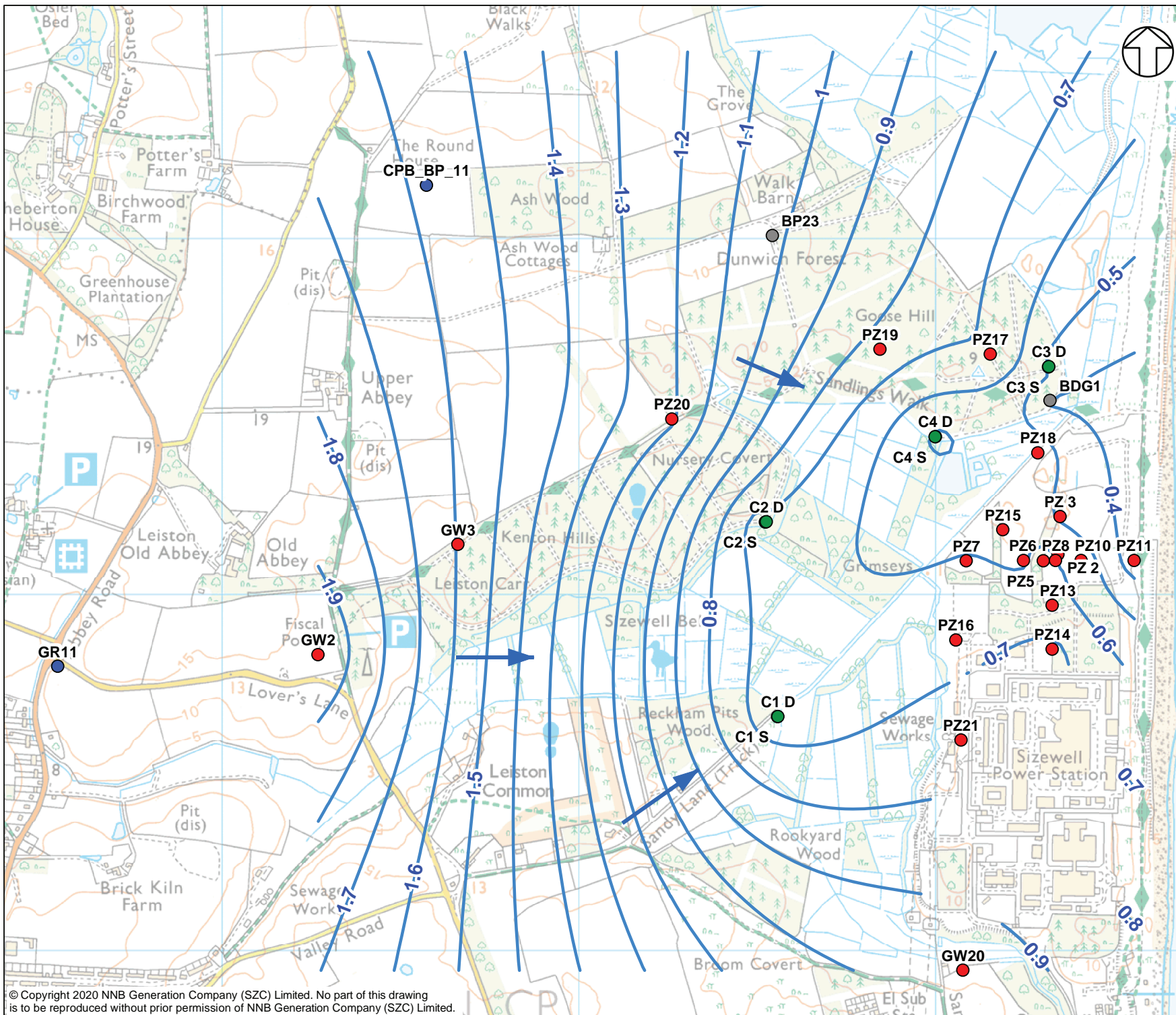
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 CHAPTER 19B1
 GROUNDWATER AND SURFACE WATER APPENDIX B1

DRAWING TITLE:
 GROUNDWATER CONTOURS IN CRAG AQUIFER DURING WINTER 2015 (09/12/2015)

DRAWING NO:
 FIGURE 19B 1.10

DATE: JAN 2020	DRAWN: S.R.H	SCALE: 1:10,103 @A3
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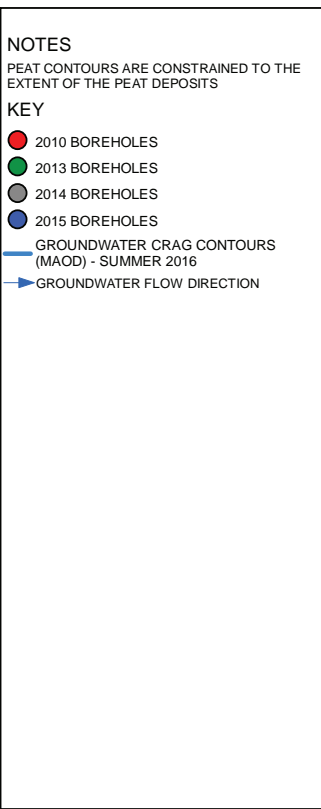


NOTES

PEAT CONTOURS ARE CONSTRAINED TO THE EXTENT OF THE PEAT DEPOSITS

KEY

- 2010 BOREHOLES
- 2013 BOREHOLES
- 2014 BOREHOLES
- 2015 BOREHOLES
- GROUNDWATER CRAG CONTOURS (MAOD) - SUMMER 2016
- GROUNDWATER FLOW DIRECTION



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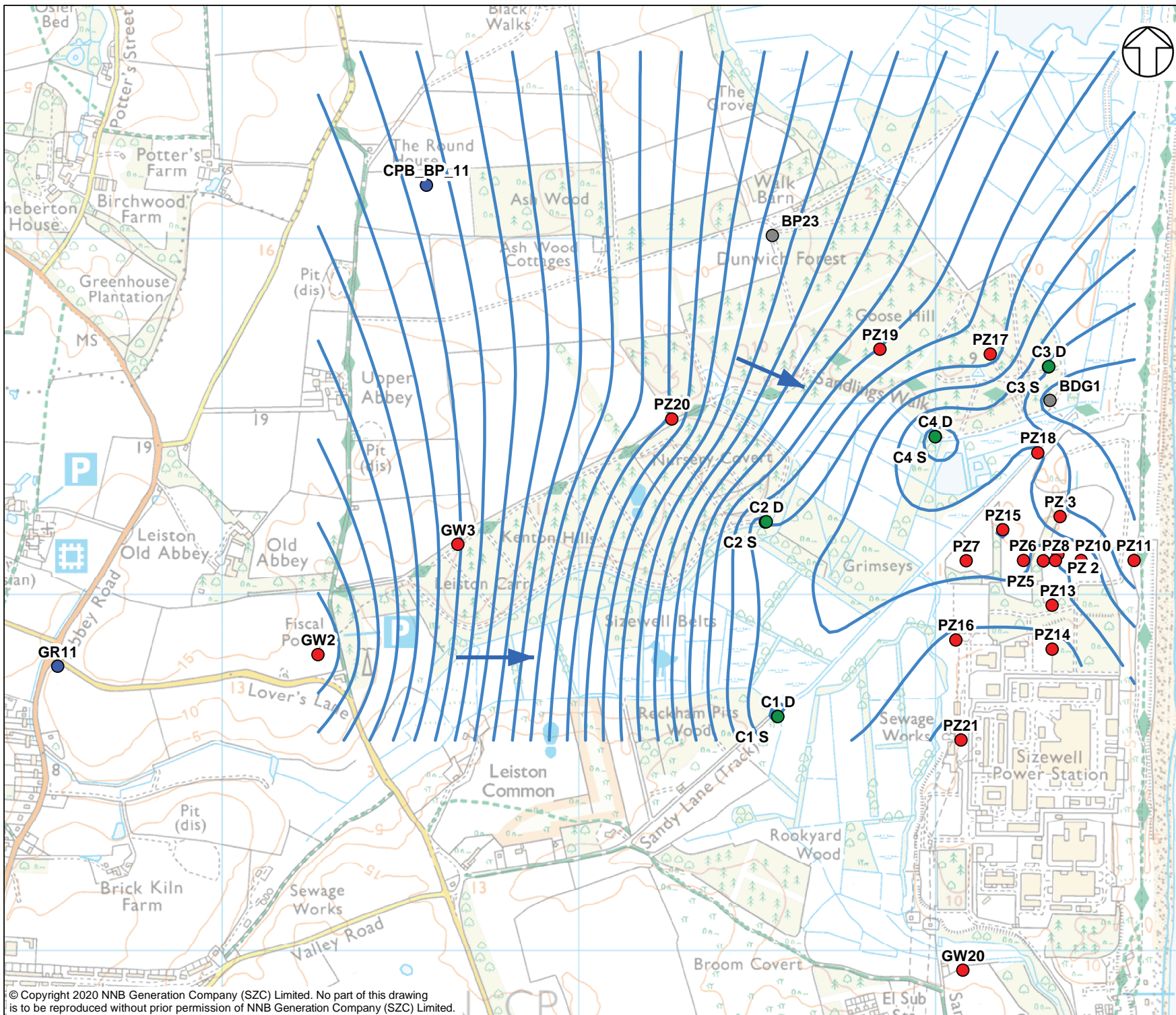
Project Title:
SIZEWELL C PROJECT
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 VOLUME 2
 CHAPTER 19B1
 GROUNDWATER AND SURFACE WATER APPENDIX
 B1

DRAWING TITLE:
**GROUNDWATER CONTOURS IN CRAG AQUIFER
 DURING SUMMER 2016 (01/06/2016)**

DRAWING NO:
FIGURE 19B 1.11

DATE: JAN 2020 DRAWN: S.R.H. SCALE: 1:10,103 @A3





NOTES
 PEAT CONTOURS ARE CONSTRAINED TO THE EXTENT OF THE PEAT DEPOSITS

KEY

- 2010 BOREHOLES
- 2013 BOREHOLES
- 2014 BOREHOLES
- 2015 BOREHOLES
- GROUNDWATER CRAG CONTOURS (MAOD) - WINTER 2016
- GROUNDWATER FLOW DIRECTION

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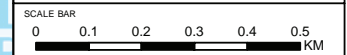


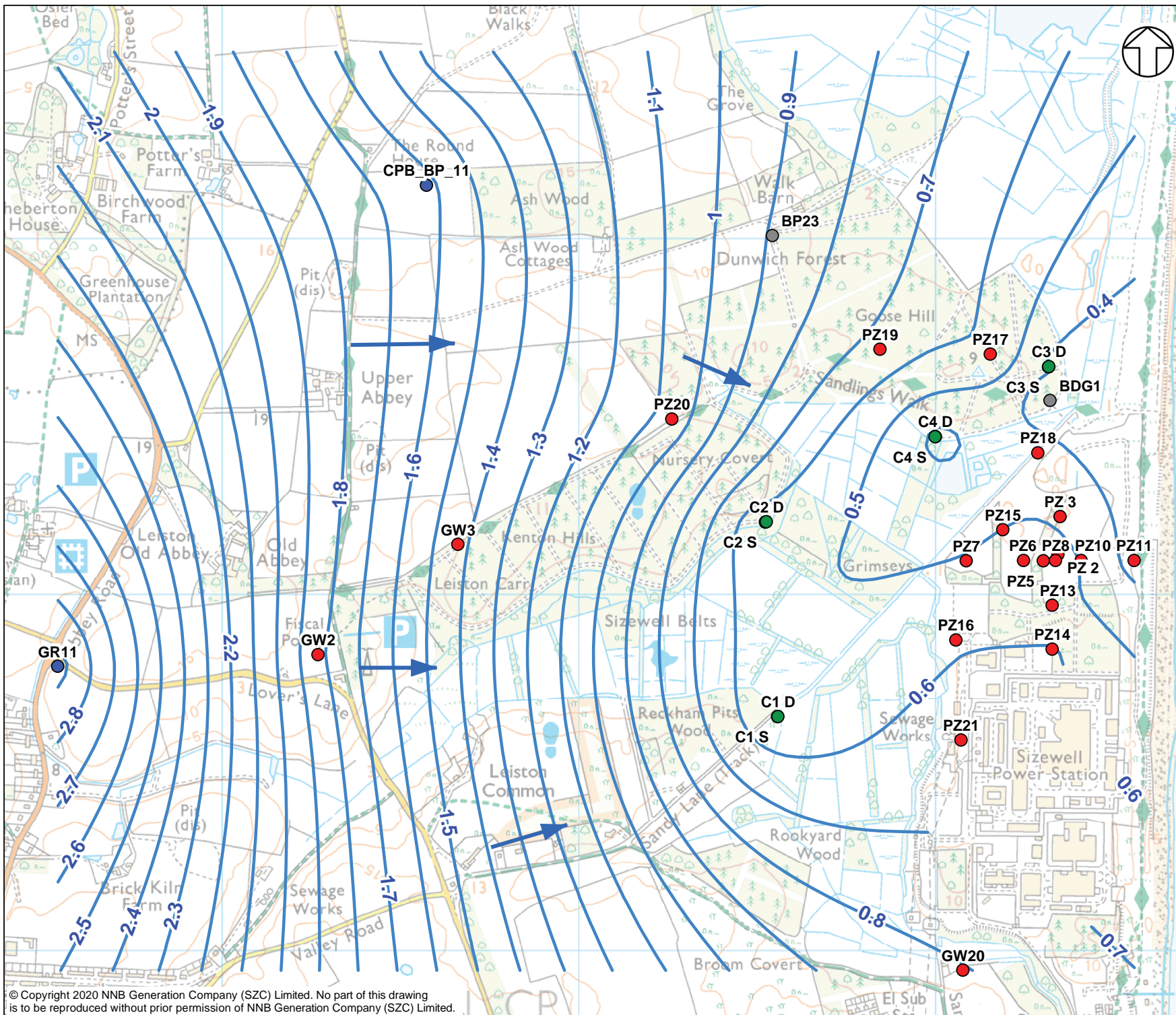
Project Title:
 SIZEWELL C PROJECT
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 CHAPTER 19B1
 GROUNDWATER AND SURFACE WATER APPENDIX B1

DRAWING TITLE:
 GROUNDWATER CONTOURS IN CRAG AQUIFER DURING WINTER 2016 (09/12/2016)

DRAWING NO.:
 FIGURE 19B.1.12

DATE: JAN 2020 **DRAWN:** S.R.H. **SCALE:** 1:10,103 @A3





- NOTES**
 PEAT CONTOURS ARE CONSTRAINED TO THE EXTENT OF THE PEAT DEPOSITS
- KEY**
- 2010 BOREHOLES
 - 2013 BOREHOLES
 - 2014 BOREHOLES
 - 2015 BOREHOLES
 - GROUNDWATER CRAG CONTOURS (MAOD) - SUMMER 2017
 - GROUNDWATER FLOW DIRECTION

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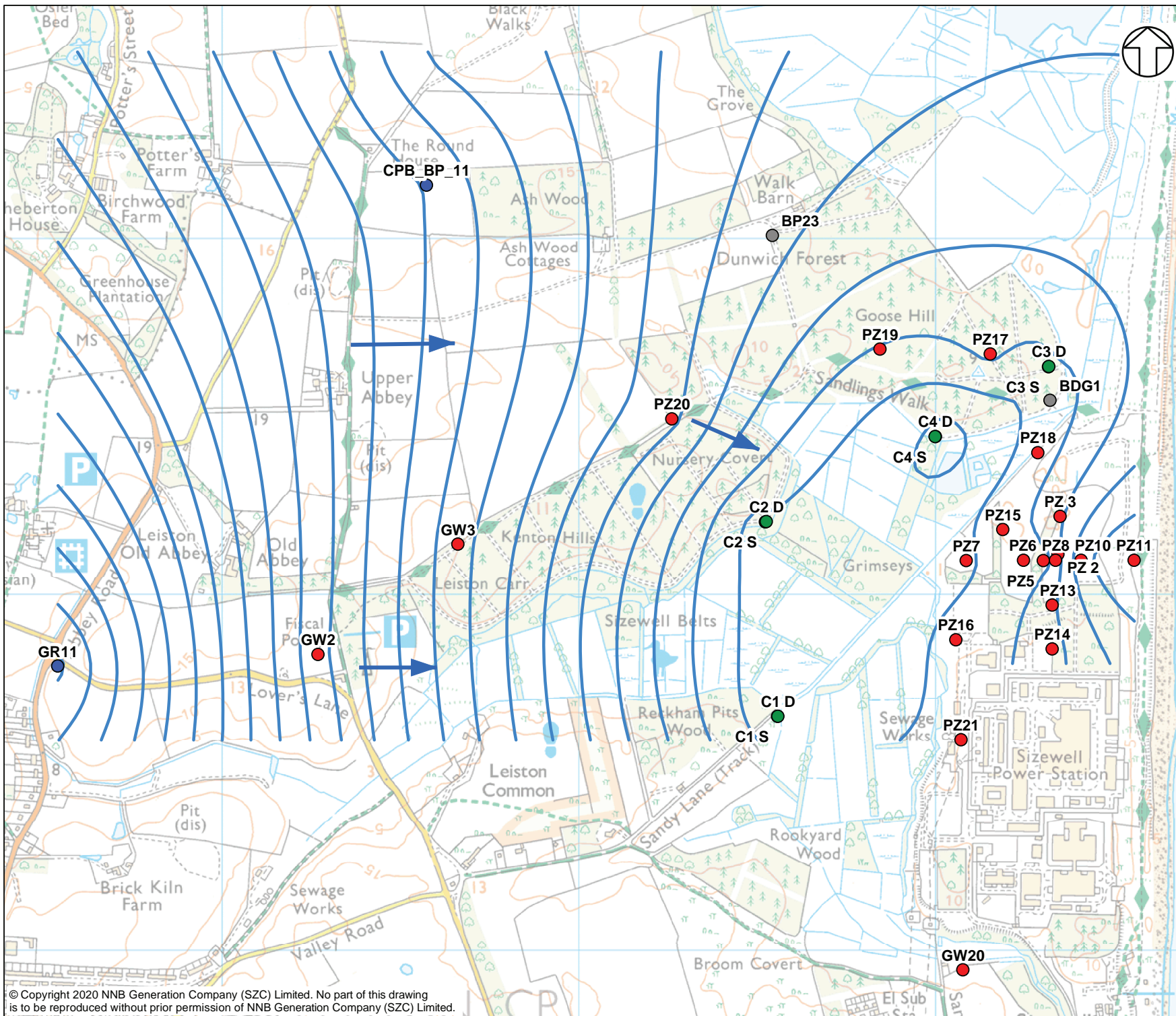
Project Title:
 SIZEWELL C PROJECT
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 GROUNDWATER AND SURFACE WATER APPENDIX B1

DRAWING TITLE:
 GROUNDWATER CONTOURS IN CRAG AQUIFER DURING SUMMER 2017 (01/06/2017)

DRAWING NO:
 FIGURE 19B 1.13

DATE: JAN 2020	DRAWN: S.R.H	SCALE: 1:10,103 @A3
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SCALE BAR
 0 0.1 0.2 0.3 0.4 0.5 KM



- NOTES**
 PEAT CONTOURS ARE CONSTRAINED TO THE EXTENT OF THE PEAT DEPOSITS
- KEY**
- 2010 BOREHOLES
 - 2013 BOREHOLES
 - 2014 BOREHOLES
 - 2015 BOREHOLES
 - GROUNDWATER CRAG CONTOURS (MAOD) - WINTER 2017
 - GROUNDWATER FLOW DIRECTION

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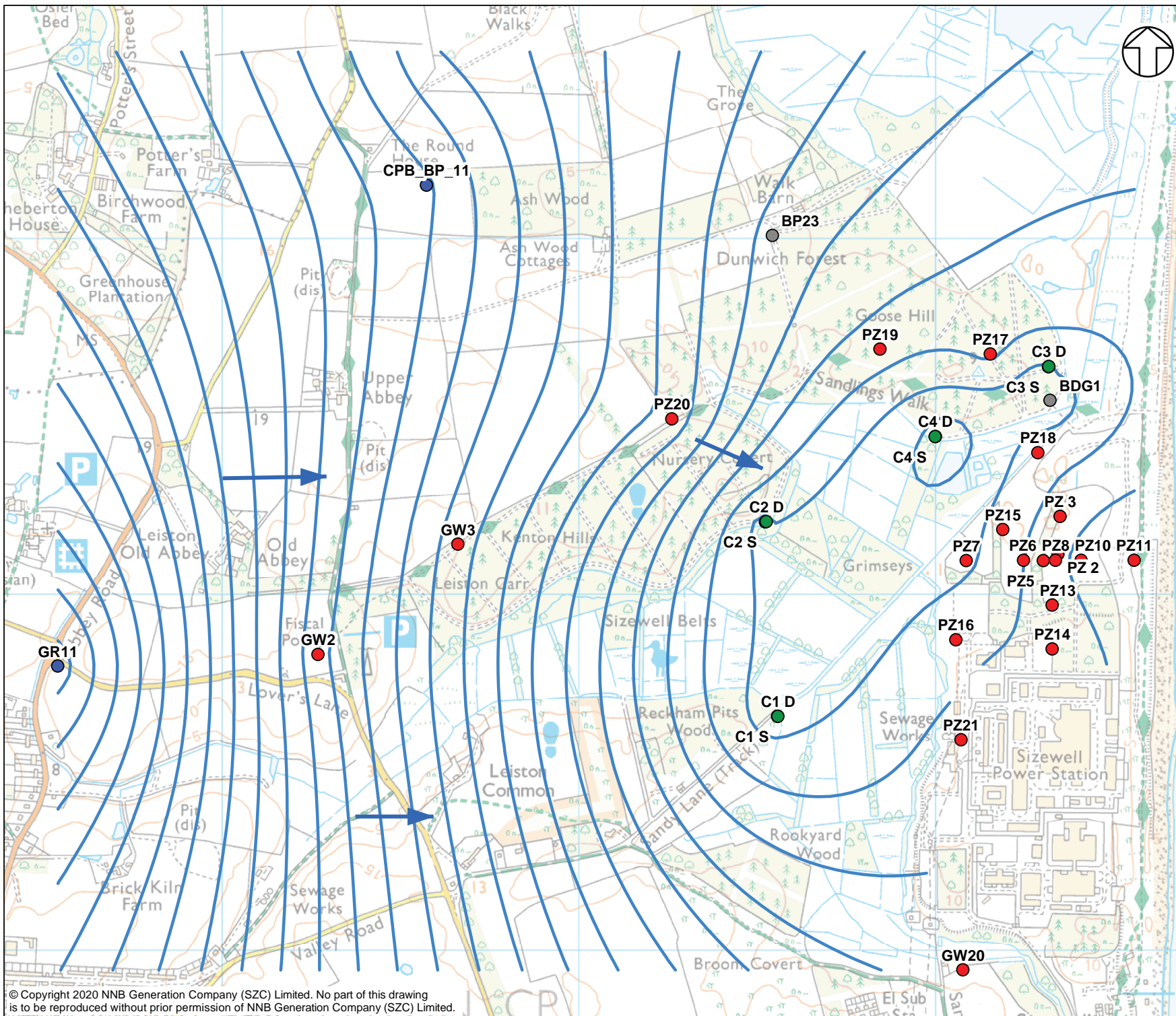
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 SIZEWELL C PROJECT
 ENVIRONMENTAL STATEMENT
 VOLUME 2
 CHAPTER 19B1
 GROUNDWATER AND SURFACE WATER APPENDIX B1

DRAWING TITLE:
 GROUNDWATER CONTOURS IN CRAG AQUIFER DURING WINTER 2017 (09/12/2017)

DRAWING NO:
 FIGURE 19B 1.14

DATE: JAN 2020	DRAWN: S.R.H	SCALE: 1:10,103 @A3
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SCALE BAR
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- NOTES**
 PEAT CONTOURS ARE CONSTRAINED TO THE EXTENT OF THE PEAT DEPOSITS
- KEY**
- 2010 BOREHOLES
 - 2013 BOREHOLES
 - 2014 BOREHOLES
 - 2015 BOREHOLES
 - GROUNDWATER CRAG CONTOURS (MAOD) - SUMMER 2018
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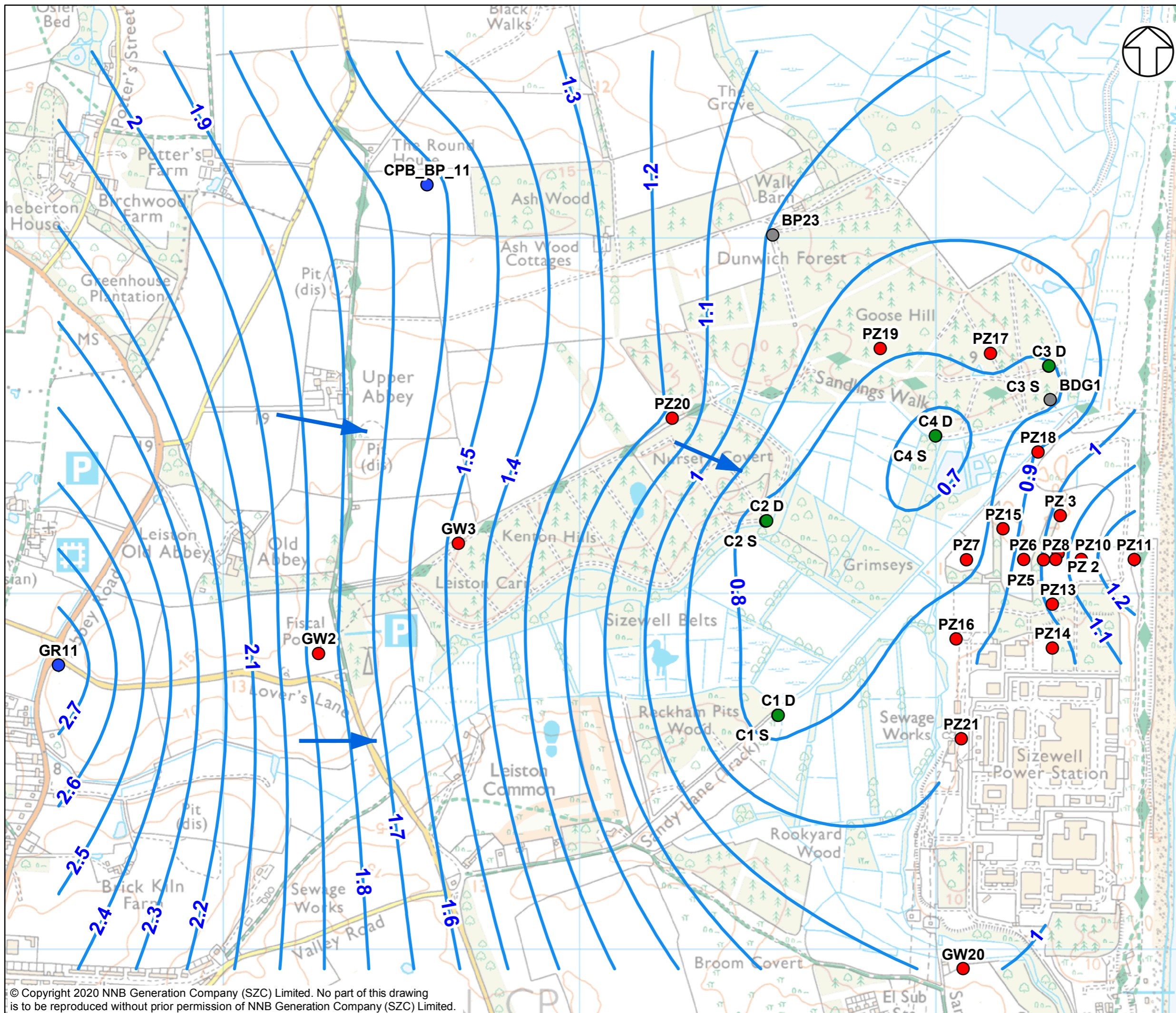
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 VOLUME 2
 CHAPTER 19B1
 GROUNDWATER AND SURFACE WATER APPENDIX B1

DRAWING TITLE:
 GROUNDWATER CONTOURS IN CRAG AQUIFER DURING SUMMER 2018 (01/06/2018)

DRAWING NO:
 FIGURE 19B 1.15

DATE: JAN 2020	DRAWN: S.R.H	SCALE: 1:10,103 @A3
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SCALE BAR
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NOTES
 PEAT CONTOURS ARE CONSTRAINED TO THE EXTENT OF THE PEAT DEPOSITS

KEY

- 2010 BOREHOLES
- 2013 BOREHOLES
- 2014 BOREHOLES
- 2015 BOREHOLES
- GROUNDWATER CRAG CONTOURS (MAOD) - WINTER 2018
- GROUNDWATER FLOW DIRECTION

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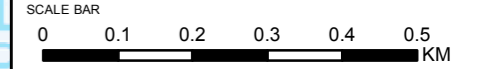


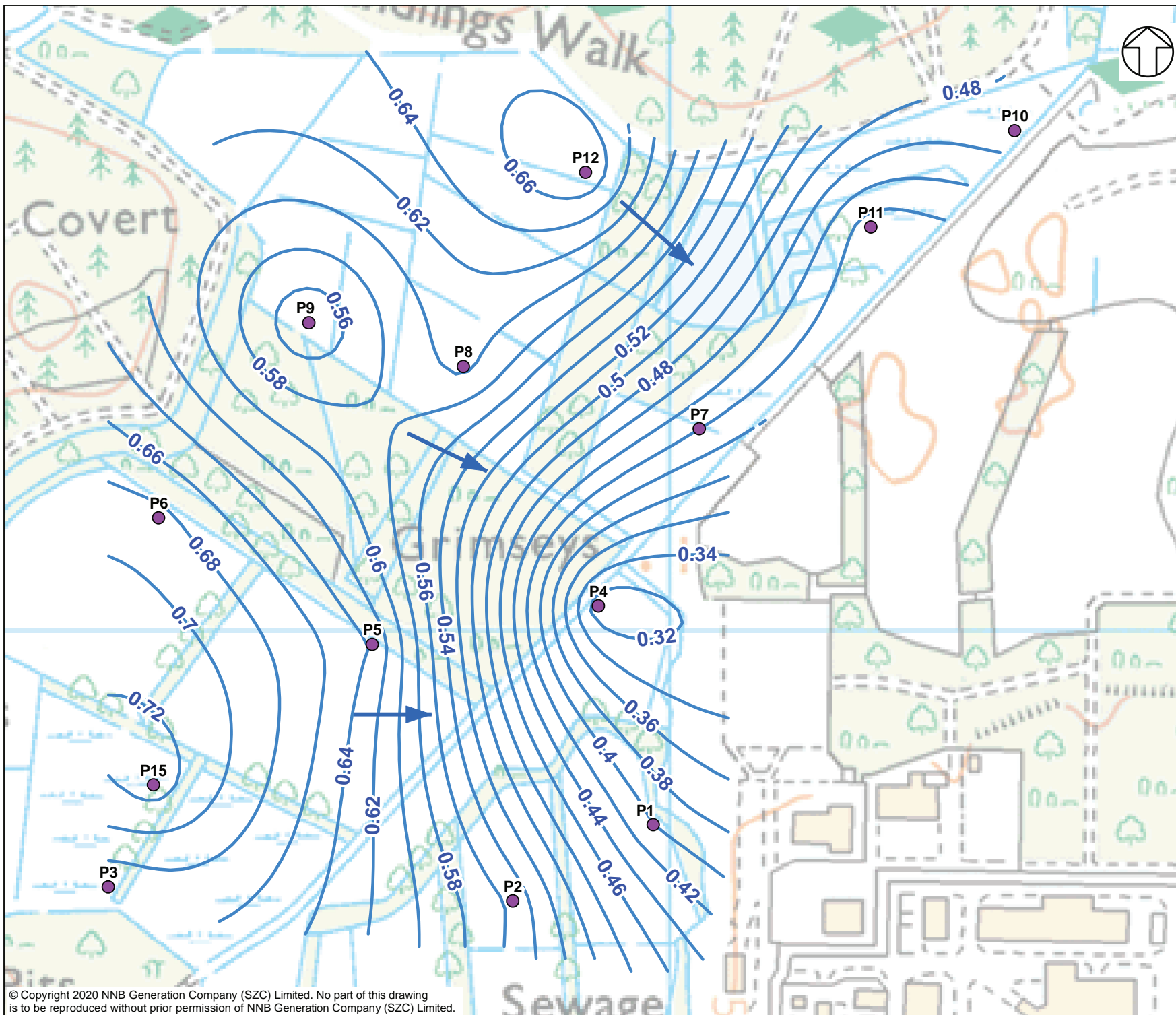
Project Title:
 SIZEWELL C PROJECT
 ENVIRONMENTAL STATEMENT
 VOLUME 2
 CHAPTER 19B1
 GROUNDWATER AND SURFACE WATER APPENDIX B1

DRAWING TITLE:
 GROUNDWATER CONTOURS IN CRAG AQUIFER DURING WINTER 2018 (09 12 2018)

DRAWING NO:
 FIGURE 19B 1.16

DATE: JAN 2020 DRAWN: S.R.H SCALE: 1:10,103 @A3





NOTES
 PEAT CONTOURS ARE CONSTRAINED TO THE EXTENT OF THE PEAT DEPOSITS

KEY

- 2013 PEAT BOREHOLES
- GROUNDWATER PEAT CONTOURS (MAOD) - WINTER 2015
- GROUNDWATER FLOW DIRECTION

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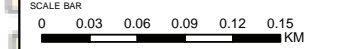


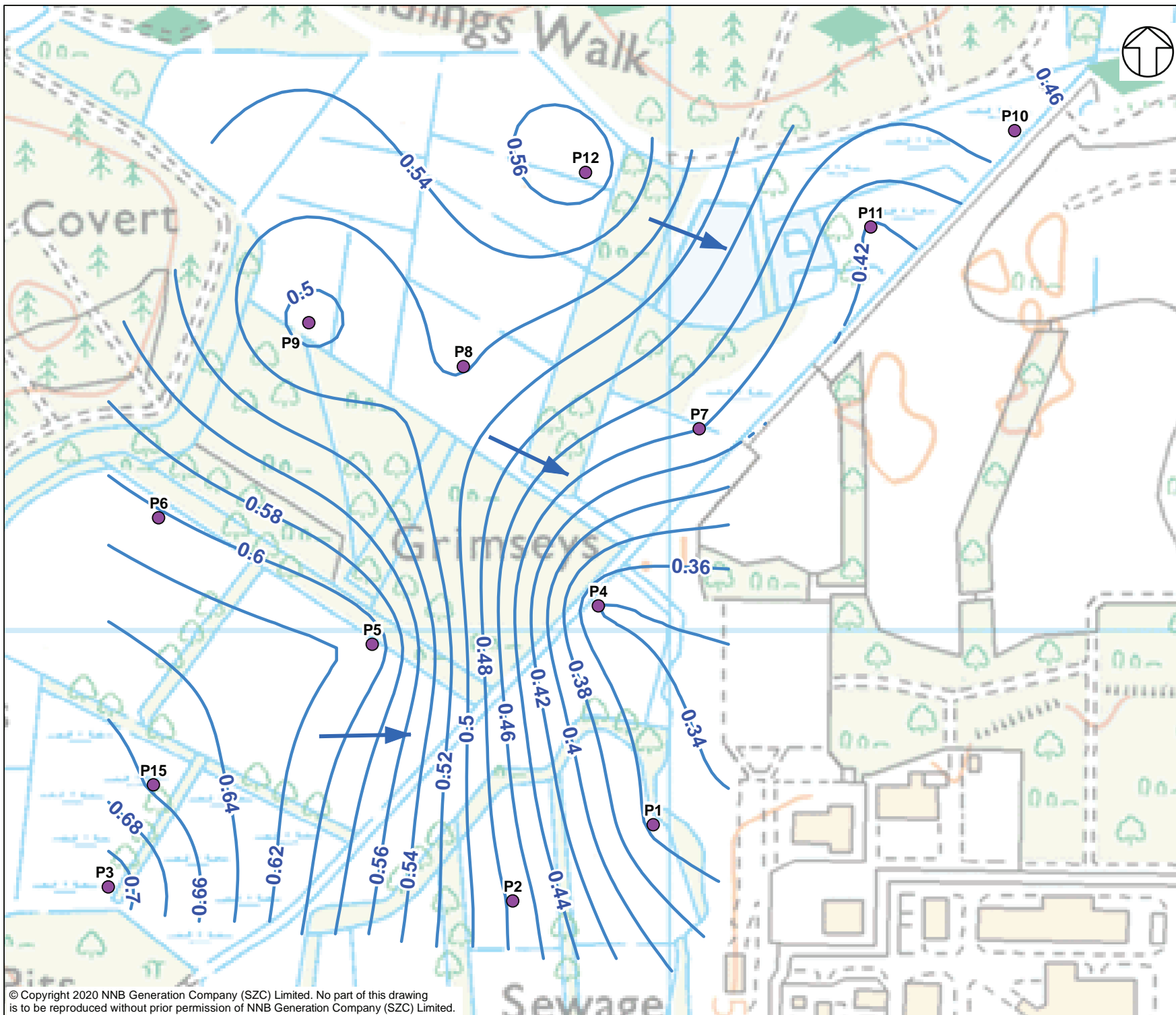
Project Title:
 SIZEWELL C PROJECT
 ENVIRONMENTAL STATEMENT
 VOLUME 2
 CHAPTER 19B1
 GROUNDWATER AND SURFACE WATER APPENDIX B1

DRAWING TITLE:
 GROUNDWATER CONTOURS IN PEAT AQUIFER DURING WINTER 2015 (09/12/2015)

DRAWING NO:
 FIGURE 19B 1.17

DATE: JAN 2020 DRAWN: S.R.H SCALE: 1:3,357 @A3





NOTES
 PEAT CONTOURS ARE CONSTRAINED TO THE EXTENT OF THE PEAT DEPOSITS

KEY

- 2013 PEAT BOREHOLES
- GROUNDWATER PEAT CONTOURS (MAOD) - SUMMER 2016
- ➔ GROUNDWATER FLOW DIRECTION

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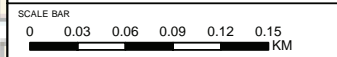


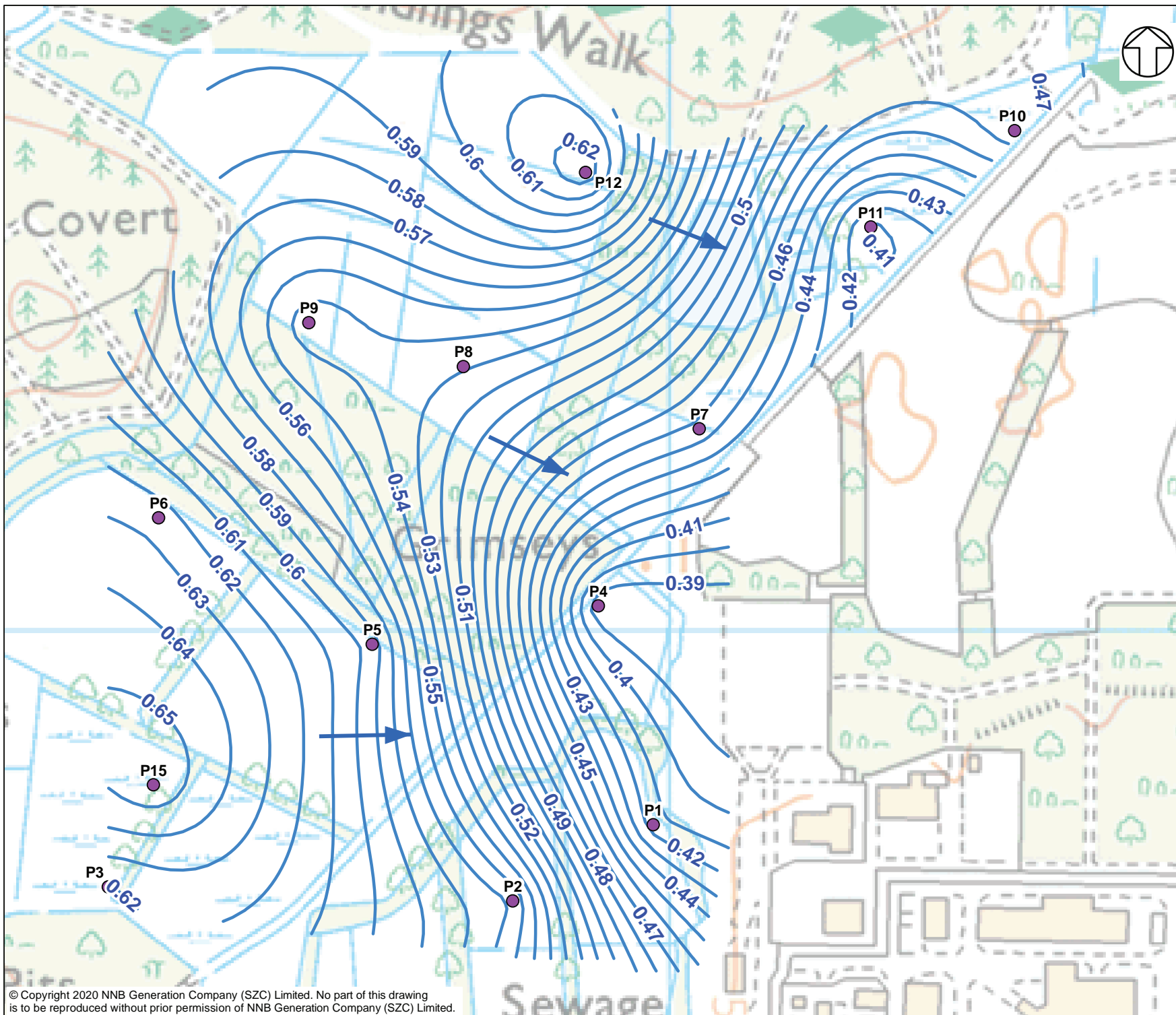
Project Title:
 SIZEWELL C PROJECT
 ENVIRONMENTAL STATEMENT
 VOLUME 2
 CHAPTER 19B1
 GROUNDWATER AND SURFACE WATER APPENDIX B1

DRAWING TITLE:
 GROUNDWATER CONTOURS IN PEAT AQUIFER DURING SUMMER 2016 (01/06/2016)

DRAWING NO:
 FIGURE 19B 1.18

DATE: JAN 2020 DRAWN: S.R.H SCALE: 1:3,357 @A3





NOTES
 PEAT CONTOURS ARE CONSTRAINED TO THE EXTENT OF THE PEAT DEPOSITS

KEY

- 2013 PEAT BOREHOLES
- GROUNDWATER PEAT CONTOURS (MAOD) - WINTER 2016
- GROUNDWATER FLOW DIRECTION

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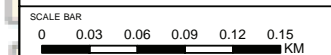


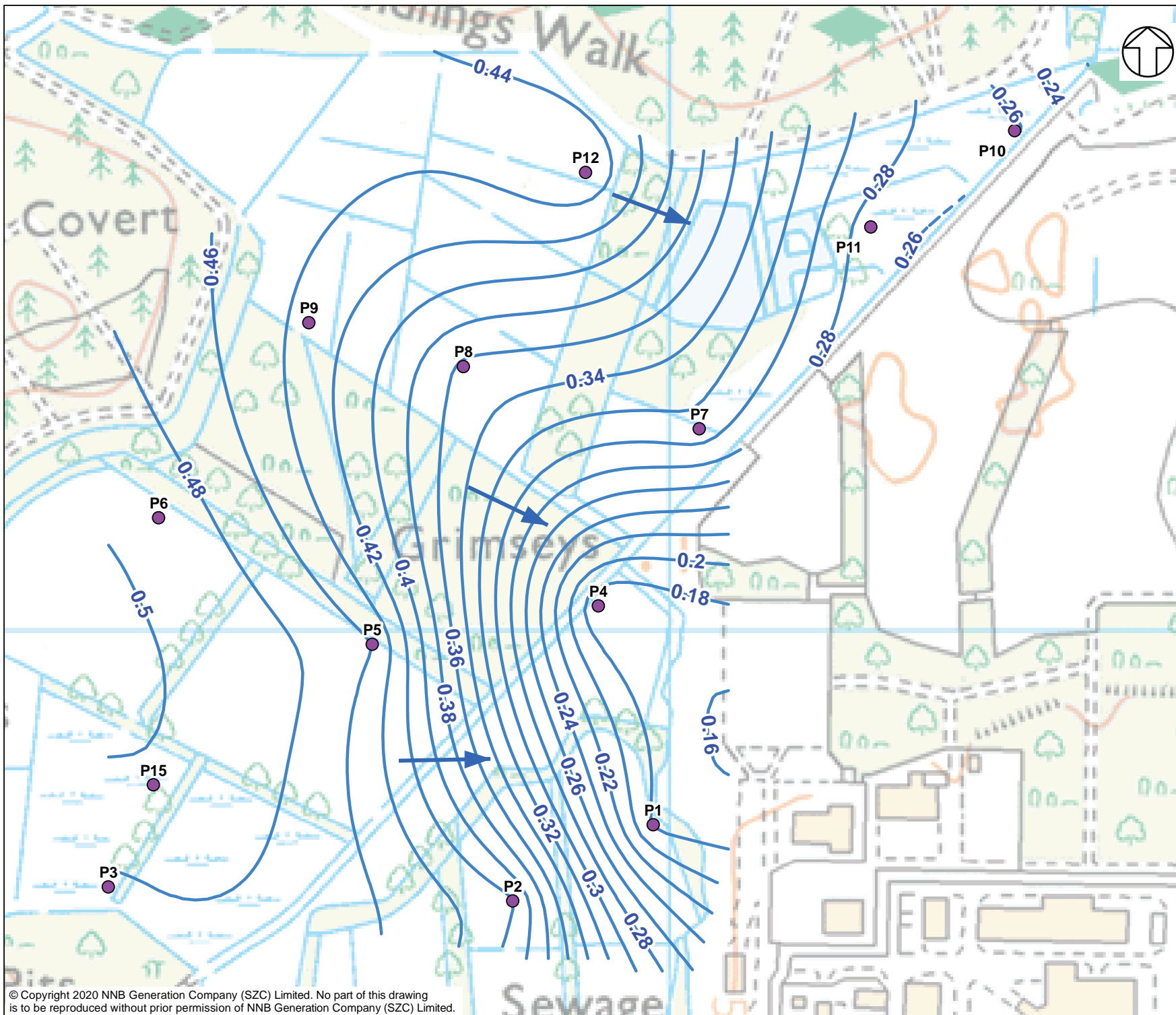
Project Title:
 SIZEWELL C PROJECT
 ENVIRONMENTAL STATEMENT
 VOLUME 2
 CHAPTER 19B1
 GROUNDWATER AND SURFACE WATER APPENDIX
 B1

DRAWING TITLE:
 GROUNDWATER CONTOURS IN PEAT AQUIFER
 DURING WINTER 2016 (09/12/2016)

DRAWING NO:
 FIGURE 19B 1.19

DATE: JAN 2020 DRAWN: S.R.H SCALE: 1:3,357 @A3





NOTES
 PEAT CONTOURS ARE CONSTRAINED TO THE EXTENT OF THE PEAT DEPOSITS

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- GROUNDWATER PEAT CONTOURS (MAOD) - SUMMER 2017
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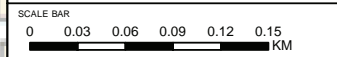


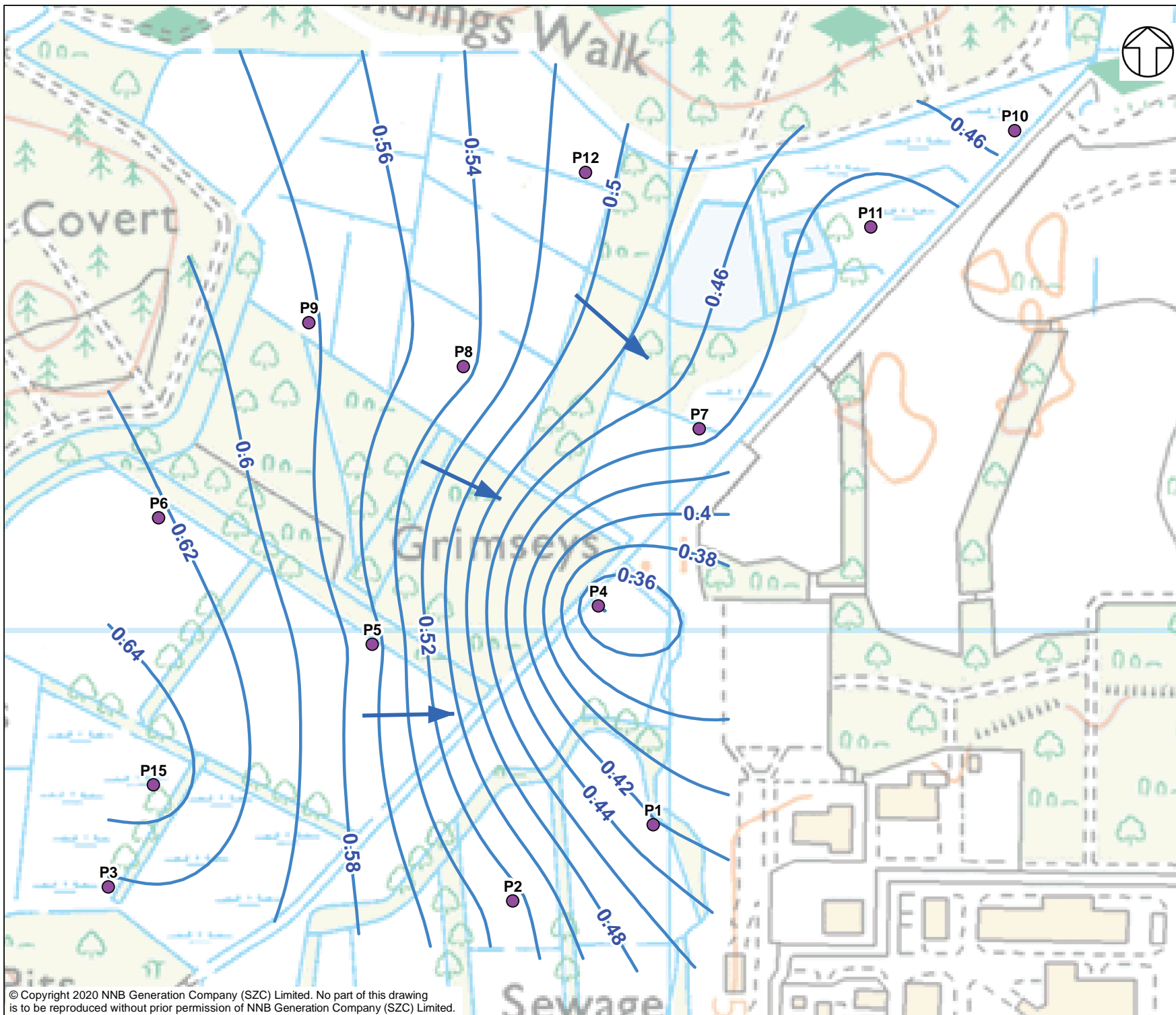
Project Title:
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 ENVIRONMENTAL STATEMENT
 VOLUME 2
 CHAPTER 19B1
 GROUNDWATER AND SURFACE WATER APPENDIX B1

DRAWING TITLE:
 GROUNDWATER CONTOURS IN PEAT AQUIFER DURING SUMMER 2017 (01/06/2017)

DRAWING NO:
 FIGURE 19B 1.20

DATE: JAN 2020 DRAWN: S.R.H SCALE: 1:3,357 @A3





NOTES
 PEAT CONTOURS ARE CONSTRAINED TO THE EXTENT OF THE PEAT DEPOSITS

KEY

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- GROUNDWATER PEAT CONTOURS (MAOD) - WINTER 2017
- ➔ GROUNDWATER FLOW DIRECTION

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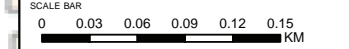


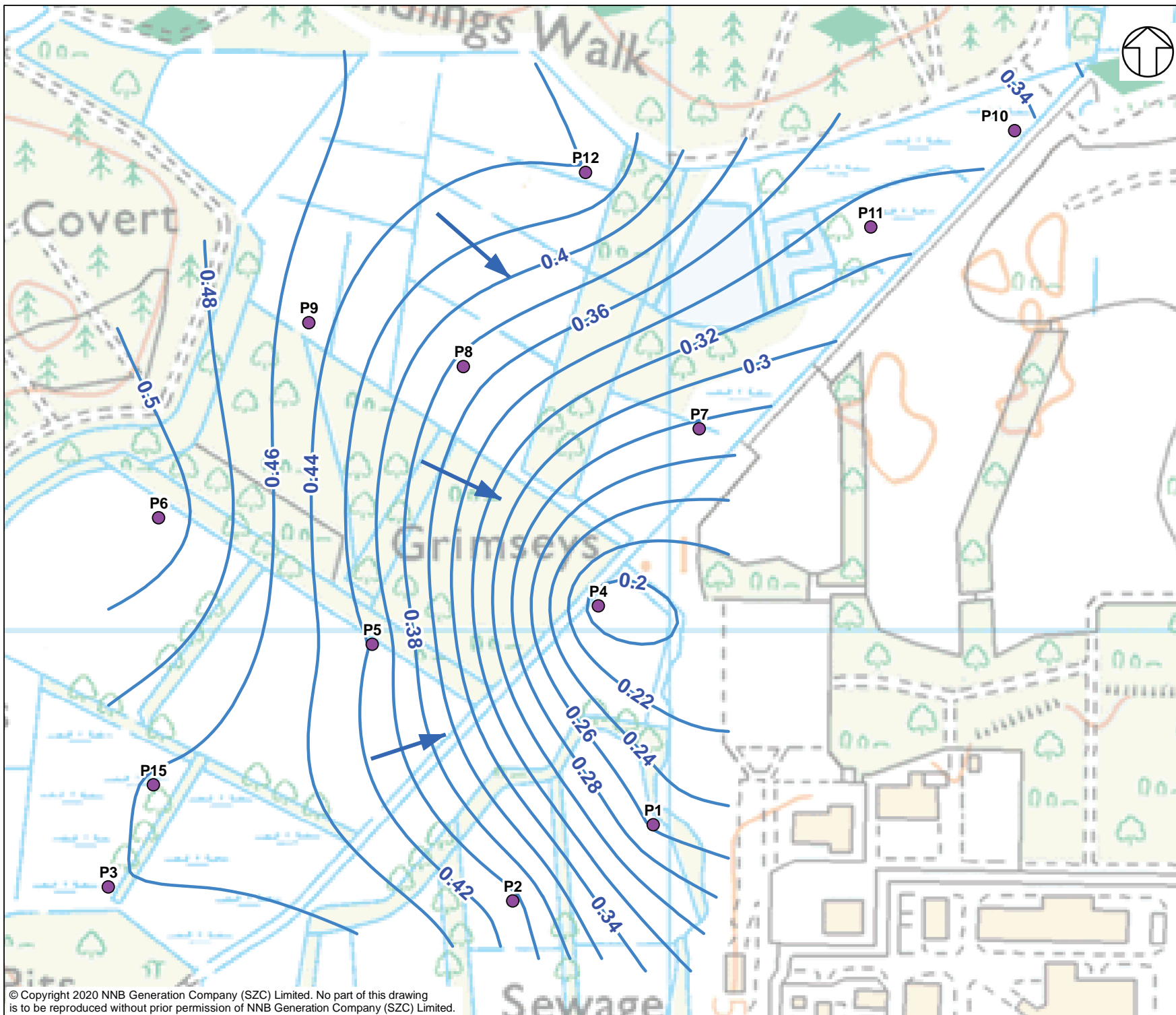
Project Title:
 SIZEWELL C PROJECT
 ENVIRONMENTAL STATEMENT
 VOLUME 2
 CHAPTER 19B1
 GROUNDWATER AND SURFACE WATER APPENDIX B1

DRAWING TITLE:
 GROUNDWATER CONTOURS IN PEAT AQUIFER DURING WINTER 2017 (09/12/2017)

DRAWING NO.:
 FIGURE 19B 1.21

DATE: JAN 2020 **DRAWN:** S.R.H **SCALE:** 1:3,357 @A3





NOTES
 PEAT CONTOURS ARE CONSTRAINED TO THE EXTENT OF THE PEAT DEPOSITS

KEY

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- GROUNDWATER PEAT CONTOURS (MAOD) - SUMMER 2018
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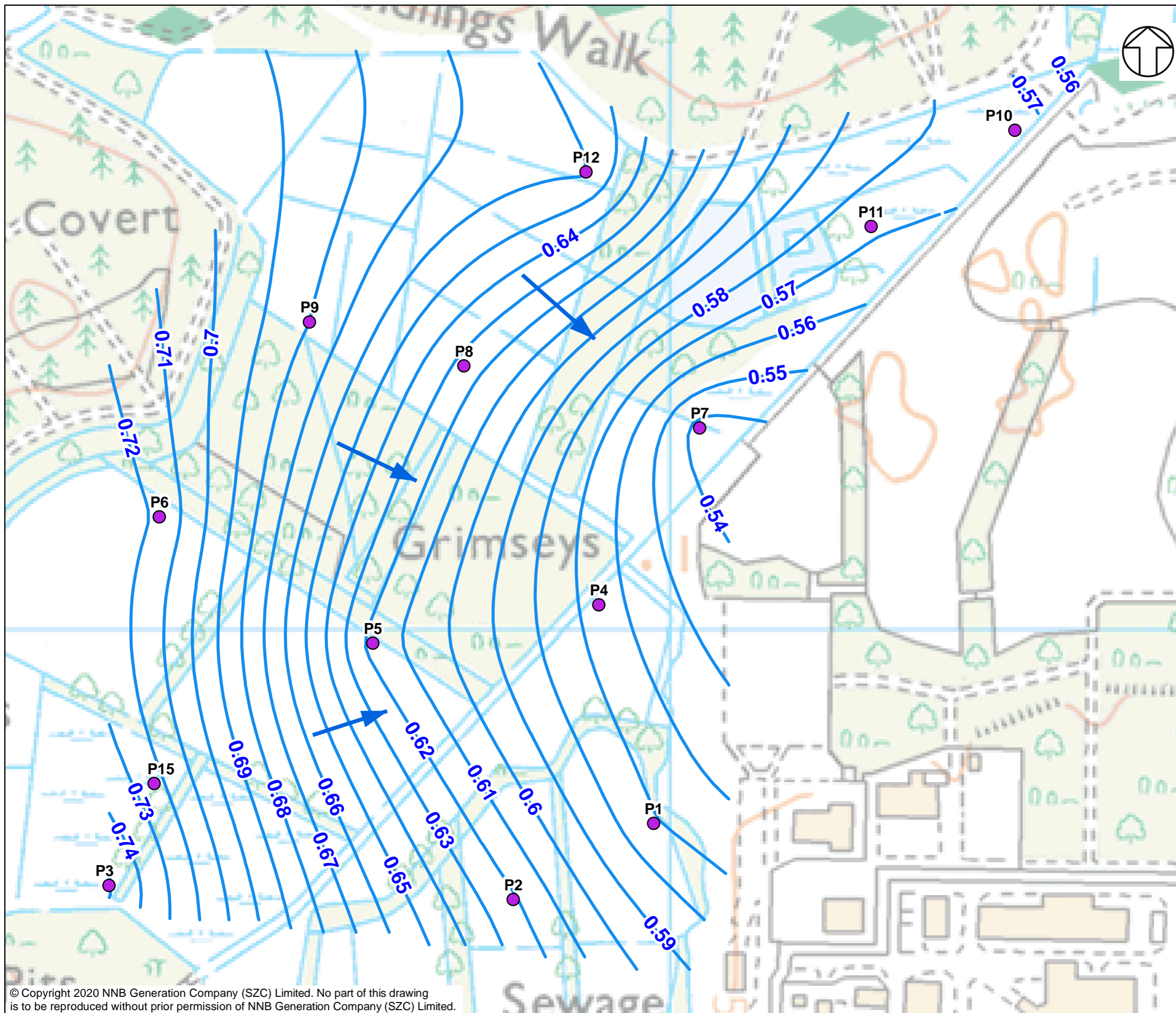
Project Title:
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 ENVIRONMENTAL STATEMENT
 VOLUME 2
 CHAPTER 19B1
 GROUNDWATER AND SURFACE WATER APPENDIX B1

DRAWING TITLE:
 GROUNDWATER CONTOURS IN PEAT AQUIFER DURING SUMMER 2018 (01/06/2018)

DRAWING NO:
 FIGURE 19B 1.22

DATE: JAN 2020 DRAWN: S.R.H SCALE: 1:3,357 @A3

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NOTES
 PEAT CONTOURS ARE CONSTRAINED TO THE EXTENT OF THE PEAT DEPOSITS

KEY

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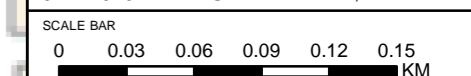


Project Title:
 SIZEWELL C PROJECT
 ENVIRONMENTAL STATEMENT
 VOLUME 2
 CHAPTER 19B1
 GROUNDWATER AND SURFACE WATER APPENDIX B1

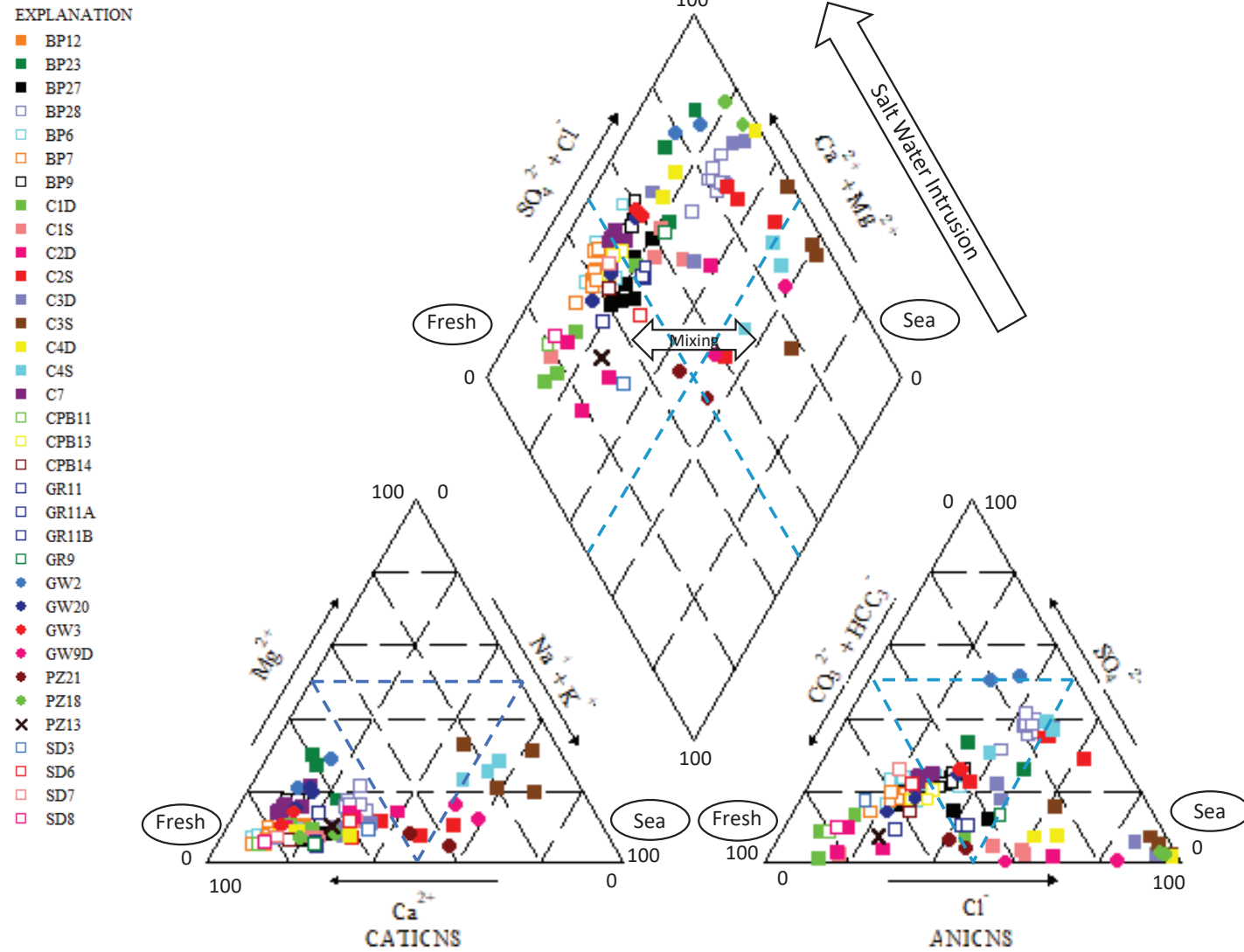
DRAWING TITLE:
 GROUNDWATER CONTOURS IN PEAT AQUIFER DURING WINTER 2018 (09/12/2018)

DRAWING NO:
 FIGURE 19B 1.23

DATE: JAN 2020 DRAWN: S.R.H SCALE: 1:3,357 @A3



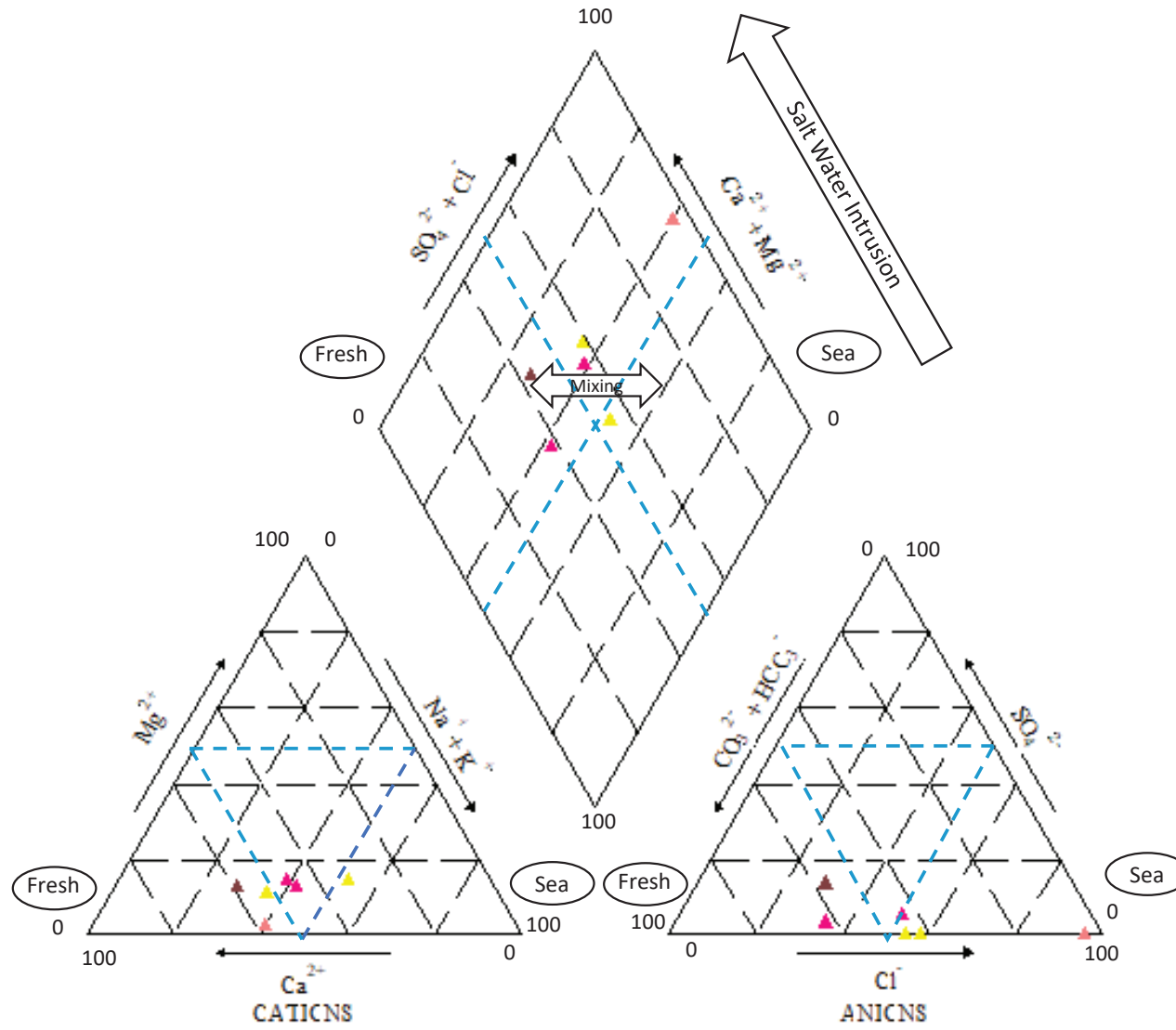
Plot 1: Crag Water Quality 2015 to 2019



Plot 2: Made Ground Water Quality 2015 to 2019

EXPLANATION

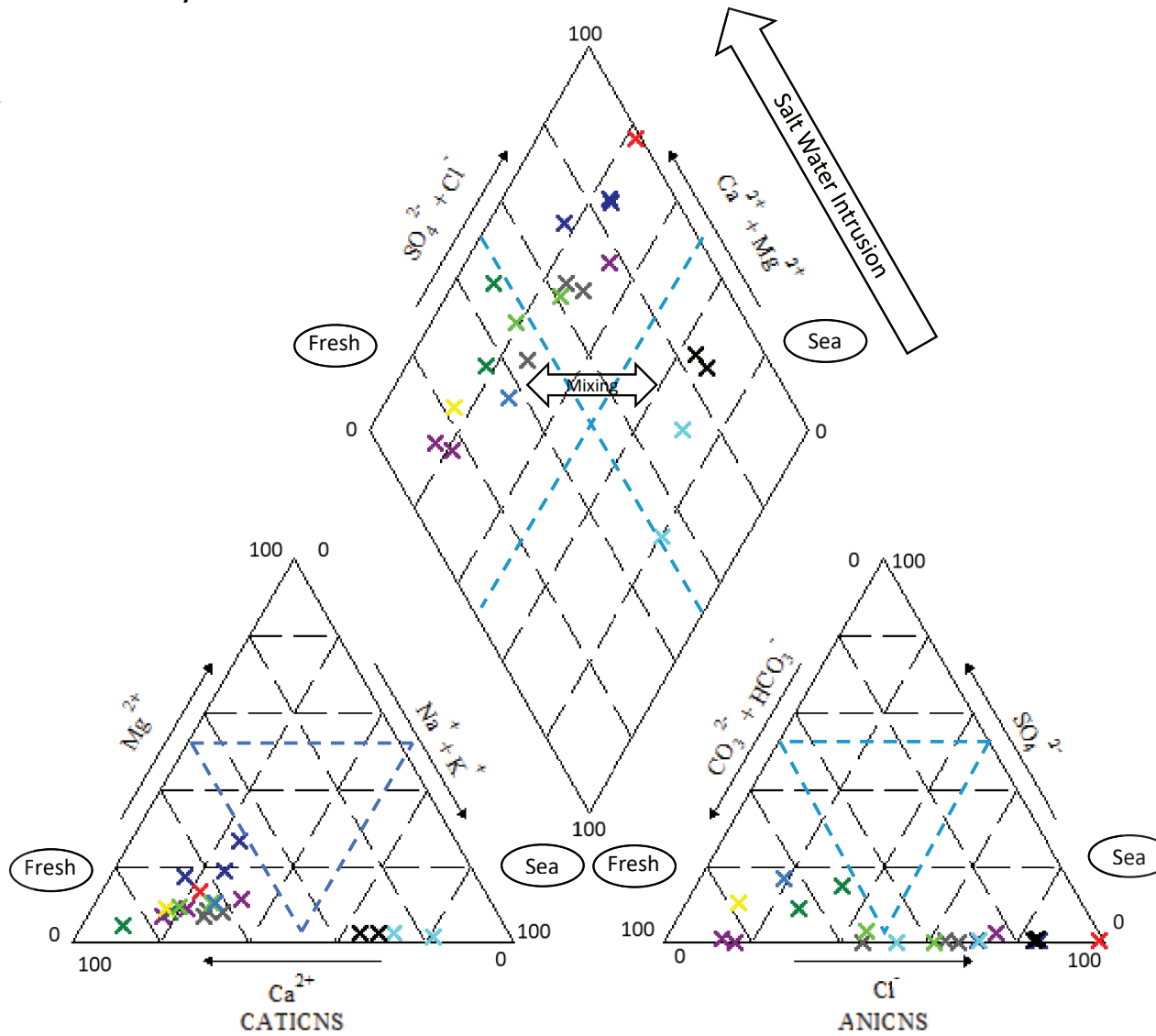
- ▲ GW12
- ▲ GW16D
- ▲ GW6S
- ▲ GW9S



Plot 3: Peat Water Quality 2015 to 2019

EXPLANATION

- ✗ P10
- ✗ P12
- ✗ P13
- ✗ P14
- ✗ P15
- ✗ P3
- ✗ P8
- ✗ P9
- ✗ PIEZ 1A
- ✗ PIEZ 1B



Plot 4: Surface Water Quality 2015 to 2019

EXPLANATION

- ★ G1
- ★ G3
- ★ G3A
- ★ G4
- ★ G5
- ★ G5A
- ★ G6A
- ★ G7A
- ★ G8
- ★ SW1
- ★ SW10
- ★ SW2
- ★ SW3
- ★ SW4
- ★ SW8

