



The Sizewell C Project

6.3 Volume 2 Main Development Site Chapter 19 Groundwater and Surface Water Appendix 19A Groundwater and Surface Water: Numerical Modelling Report Part 6 of 6

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

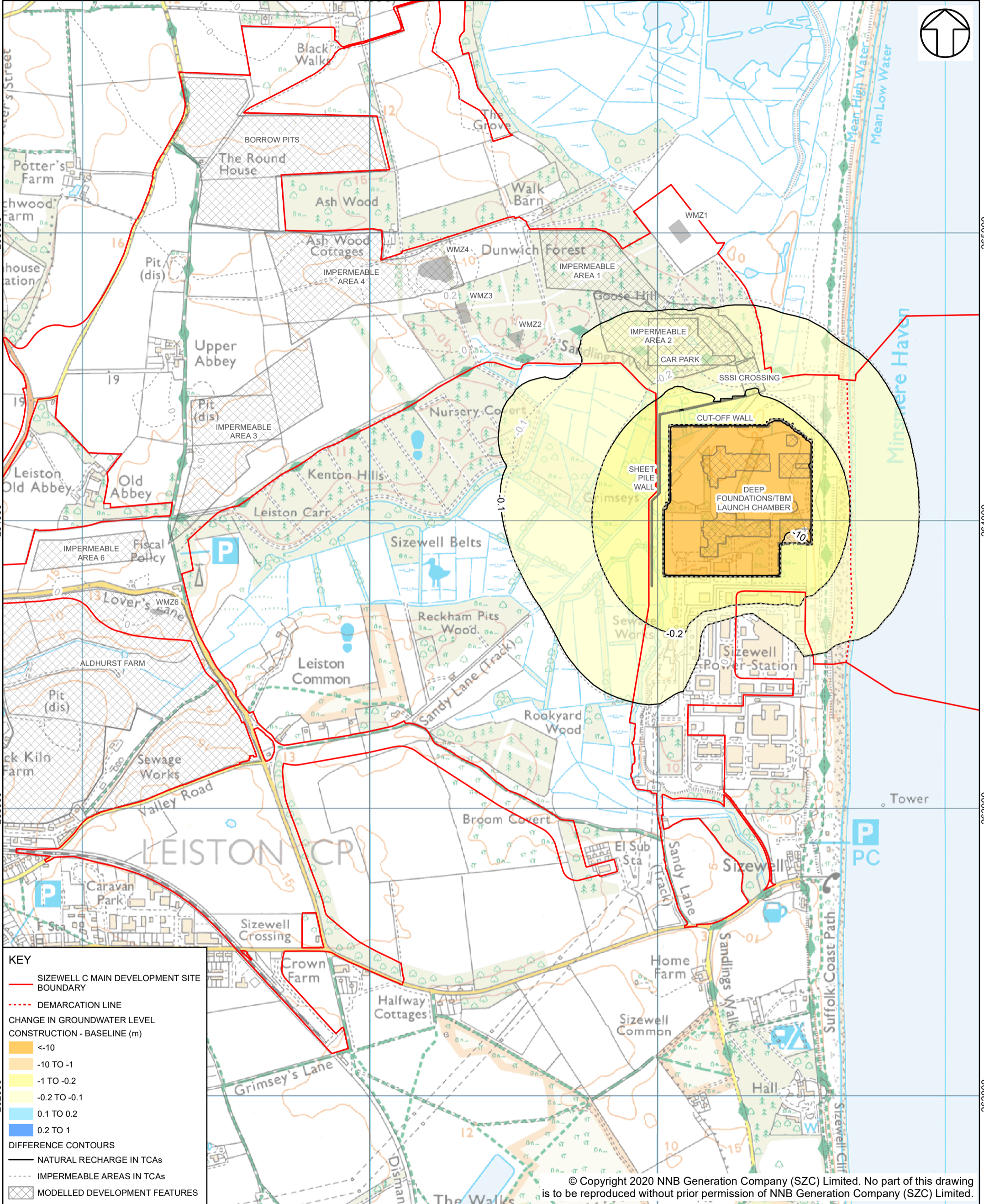


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KEY

- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- - - DEMARCATION LINE
- CHANGE IN GROUNDWATER LEVEL CONSTRUCTION - BASELINE (m)
- <-10
- 10 TO -1
- 1 TO -0.2
- 0.2 TO -0.1
- 0.1 TO 0.2
- 0.2 TO 1
- DIFFERENCE CONTOURS
- NATURAL RECHARGE IN TCAs
- IMPERMEABLE AREAS IN TCAs
- MODELLED DEVELOPMENT FEATURES

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NOTES

BASELINE RUNS:
 53-B-D-1520d / 2022b / 2232f / 3240d
 INITIAL CONSTRUCTION RUNS:
 53-C-D-1520b / 2022a / 2224h / 2432g / 3240d
 SENSITIVITY RUNS:
 53-UC-D1-2224 / 2432 / 3240

DRAWING TITLE:
 PROJECTED MAXIMUM DRAWDOWN CONTOURS IN THE CRAG: NATURAL RECHARGE IN TEMPORARY CONSTRUCTION AREAS (26 DECEMBER 2024)

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DRAWING NO:
 FIGURE 19A.122

DATE: JAN 2020 **DRAWN:** M.G. **SCALE:** 1:12,000 @A3

DOCUMENT:
 SIZEWELL C ENVIRONMENTAL STATEMENT VOLUME 2 APPENDIX 19A NUMERICAL MODELLING REPORT

SCALE BAR
 0 0.1 0.2 0.3 0.4 0.5 KM

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NOTES

G7 OMITTED DUE TO LOCATION WITH MAIN DEVELOPMENT SITE

BASILINE RUNS:
53-B-I-1520e / 2022f / 2232f / 3240d

CONSTRUCTION RUNS:
53-C-I-1520b / 2022a / 2224e / 2432g / 3240e

SENSITIVITY RUNS:
53-UC-I1-2224a / 2432 / 3240

KEY

- SURFACE WATER GAUGING LOCATIONS
- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- DEMARCATION LINE

NOT PROTECTIVELY MARKED

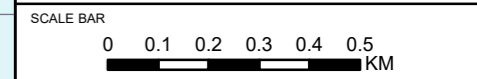
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DOCUMENT:
SIZEWELL C ENVIRONMENTAL STATEMENT VOLUME 2 APPENDIX 19A NUMERICAL MODELLING REPORT

DRAWING TITLE:
SIMULATED STAGE AT STREAM GAUGING LOCATIONS: NATURAL RECHARGE IN TEMPORARY CONSTRUCTION AREAS (2022-2032)

DRAWING NO: FIGURE 19A.123
DATE: JAN 2020 **DRAWN:** M.S. **SCALE:** 1:15,000 @A3





NOTES

G7 OMITTED DUE TO LOCATION WITH MAIN DEVELOPMENT SITE

BASELINE RUNS:
53-B-I-1520e / 2022f / 2232f / 3240d

CONSTRUCTION RUNS:
53-C-I-1520b / 2022a / 2224e / 2432g / 3240e

SENSITIVITY RUNS:
53-UC-11-2224a / 2432 / 3240

KEY

- SURFACE WATER GAUGING LOCATIONS
- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- - - DEMARCATION LINE

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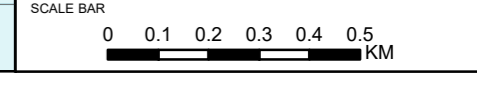


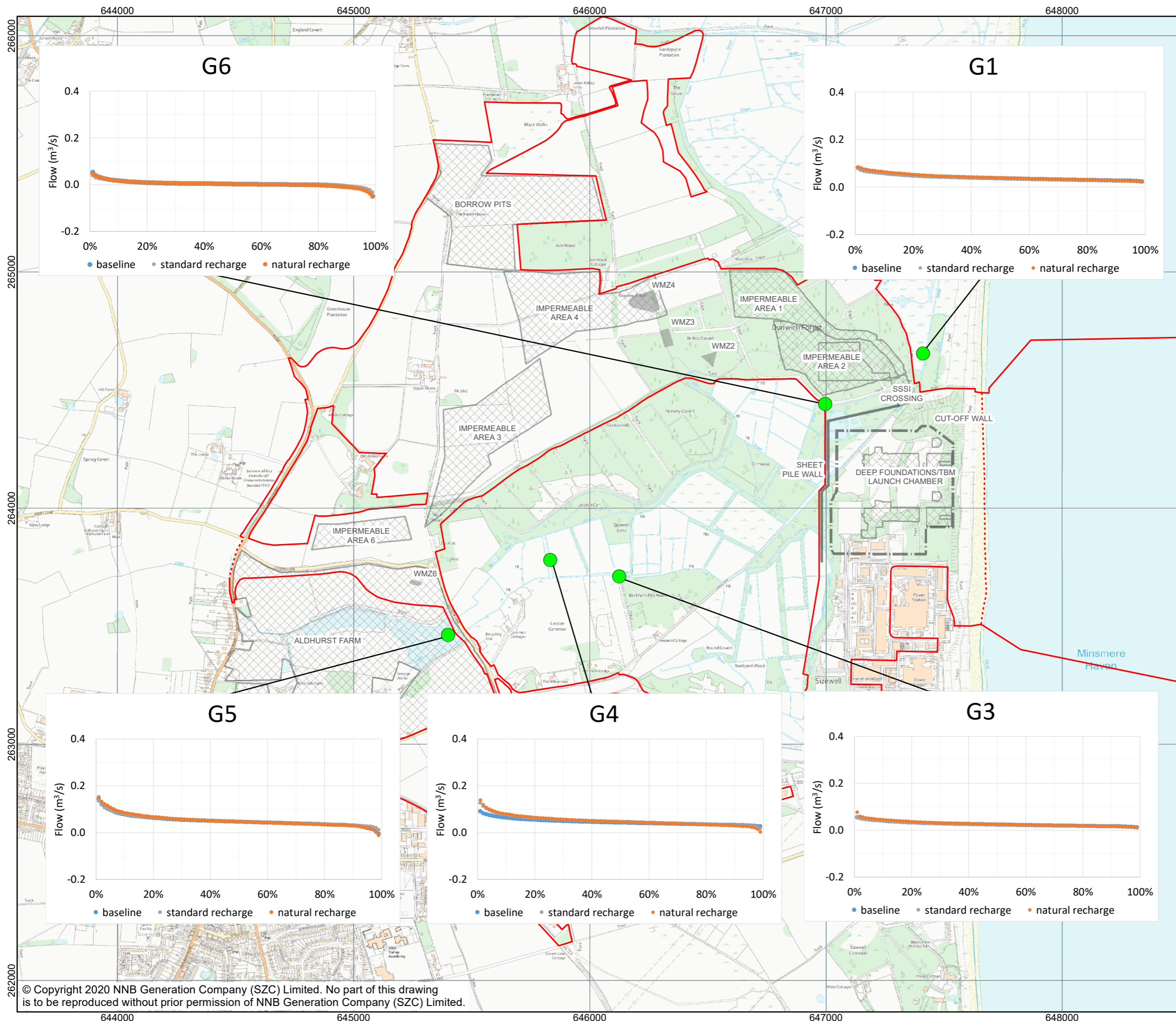
DOCUMENT:
SIZEWELL C ENVIRONMENTAL STATEMENT
VOLUME 2
APPENDIX 19A
NUMERICAL MODELLING REPORT

DRAWING TITLE:
SIMULATED FLOW AT STREAM GAUGING LOCATIONS: NATURAL RECHARGE IN TEMPORARY CONSTRUCTION AREAS (2022-2032)

DRAWING NO:
FIGURE 19A.124

DATE: JAN 2020 **DRAWN:** M.S. **SCALE:** 1:15,000 @A3





NOTES



G7 OMITTED DUE TO LOCATION WITH MAIN DEVELOPMENT SITE

BASELINE RUNS:
53-B-I-1520e / 2022f / 2232f / 3240d

CONSTRUCTION RUNS:
53-C-I-1520b / 2022a / 2224e / 2432g / 3240e

SENSITIVITY RUNS:
53-UC-I1-2224a / 2432 / 3240

- KEY
- SURFACE WATER GAUGING LOCATIONS
 - SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
 - DEMARCATION LINE
 - MODELLED DEVELOPMENT FEATURES

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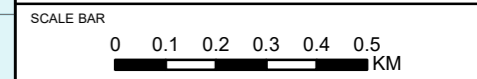


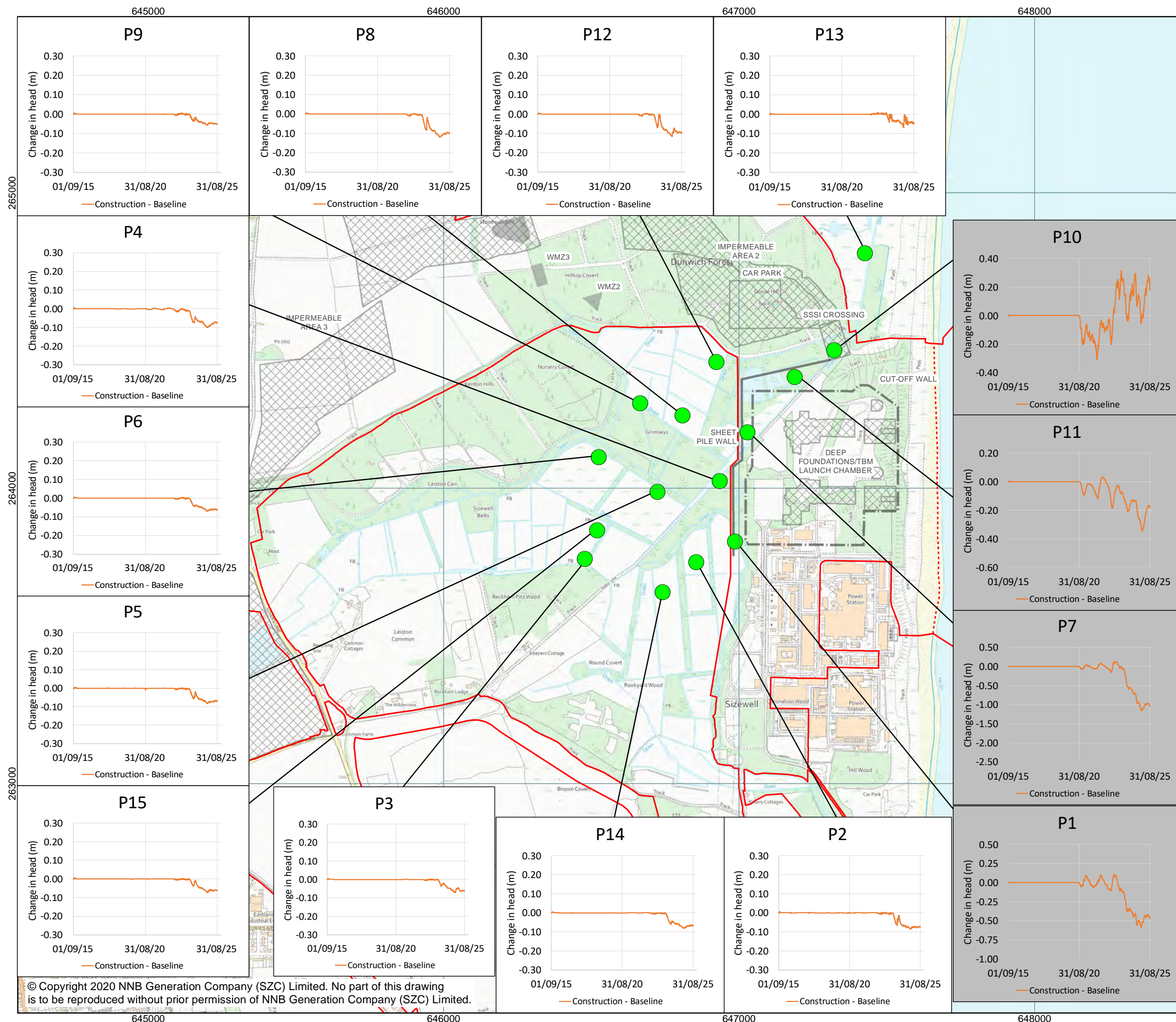
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SIZEWELL C
ENVIRONMENTAL STATEMENT
VOLUME 2
APPENDIX 19A
NUMERICAL MODELLING REPORT

DRAWING TITLE:
SIMULATED FLOW DURATION CURVES AT STREAM GAUGING LOCATIONS: NATURAL RECHARGE IN TEMPORARY CONSTRUCTION AREAS (2022-2032)

DRAWING NO:
FIGURE 19A.125

DATE: JAN 2020 DRAWN: M.S. SCALE: 1:15,000 @A3





NOTES

HYDROGRAPHS OF BOREHOLES WITHIN FOOTPRINT OF PROPOSED DEVELOPMENT ARE SHOWN IN GREY

INITIAL BASELINE RUNS:
53-B-D-1520d / 2022b / 2232f / 3240d

SENSITIVITY RUNS:
53-UC-VD-2224 / 2425

- KEY**
- PEAT MONITORING BOREHOLES
 - SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
 - - - DEMARCATION LINE
 - MODELLED DEVELOPMENT FEATURES

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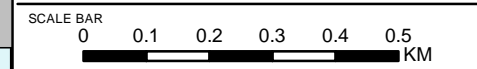


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APPENDIX 19A
NUMERICAL MODELLING REPORT

DRAWING TITLE:
PROJECTED CHANGES IN SIMULATED
GROUNDWATER LEVELS IN THE PEAT
FROM CONSTRUCTION DURING EXTREME
DROUGHT (2022-2025)

DRAWING NO:
FIGURE 19A.126

DATE: JAN 2020 **DRAWN:** M.S. **SCALE:** 1:12,000 @A3



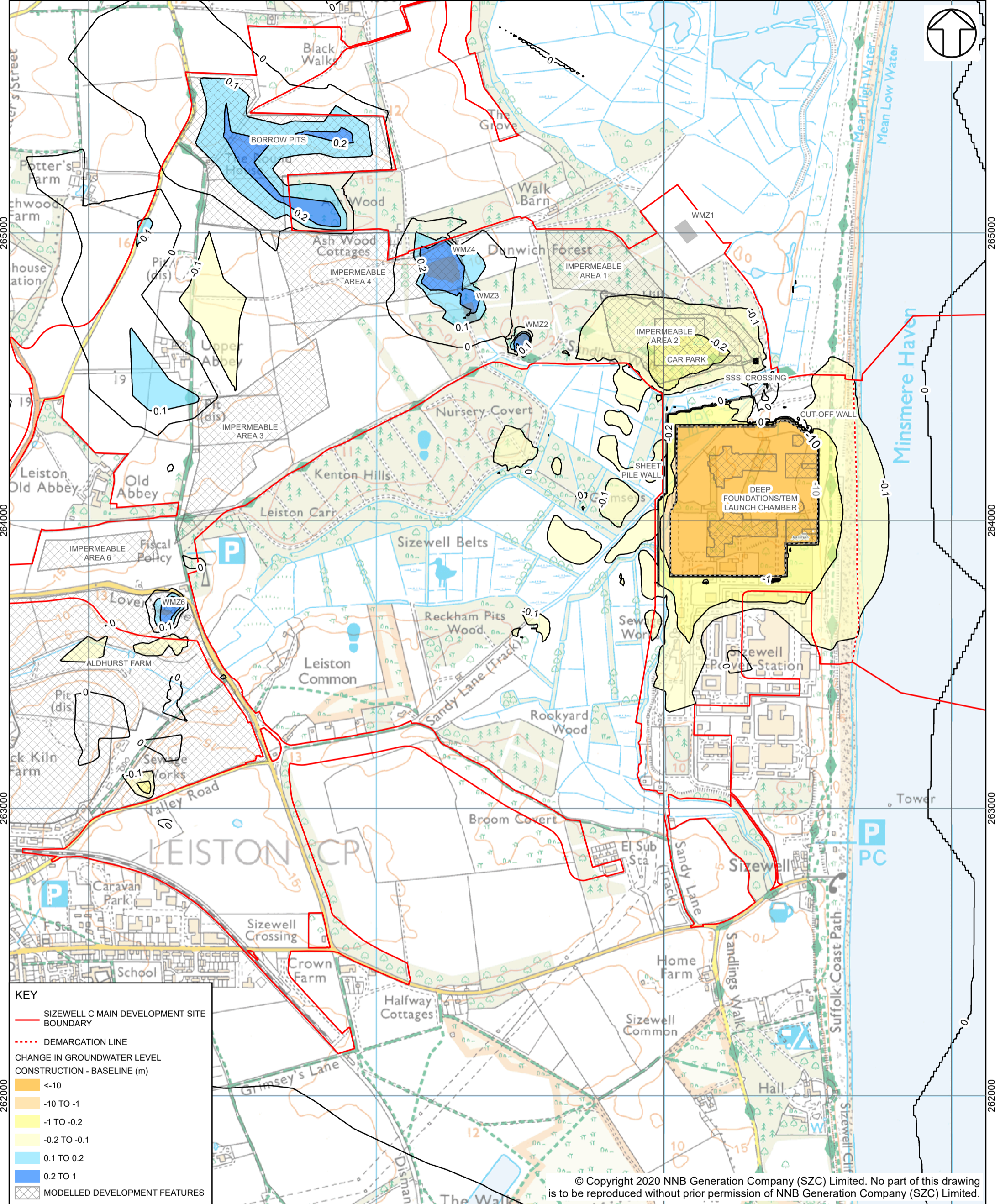
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KEY

- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- - - DEMARCATION LINE
- CHANGE IN GROUNDWATER LEVEL CONSTRUCTION - BASELINE (m)**
- -1.0
- -1.0 TO -1
- -1 TO -0.2
- -0.2 TO -0.1
- 0.1 TO 0.2
- 0.2 TO 1
- MODELLED DEVELOPMENT FEATURES

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NOTES

BASELINE RUN:
 53-B-D-2232f
 INITIAL CONSTRUCTION RUN:
 53-C-D-2432g
 SENSITIVITY RUN:
 53-UC-D1-2432

DRAWING TITLE:
 PROJECTED MAXIMUM DRAWDOWN CONTOURS IN THE WATER TABLE AQUIFER DURING CONSTRUCTION IN EXTREME DROUGHT (26 DECEMBER 2024)

NOT PROTECTIVELY MARKED

DRAWING NO:
 FIGURE 19A.127

DATE:
 JAN 2020

DRAWN:
 M.G.

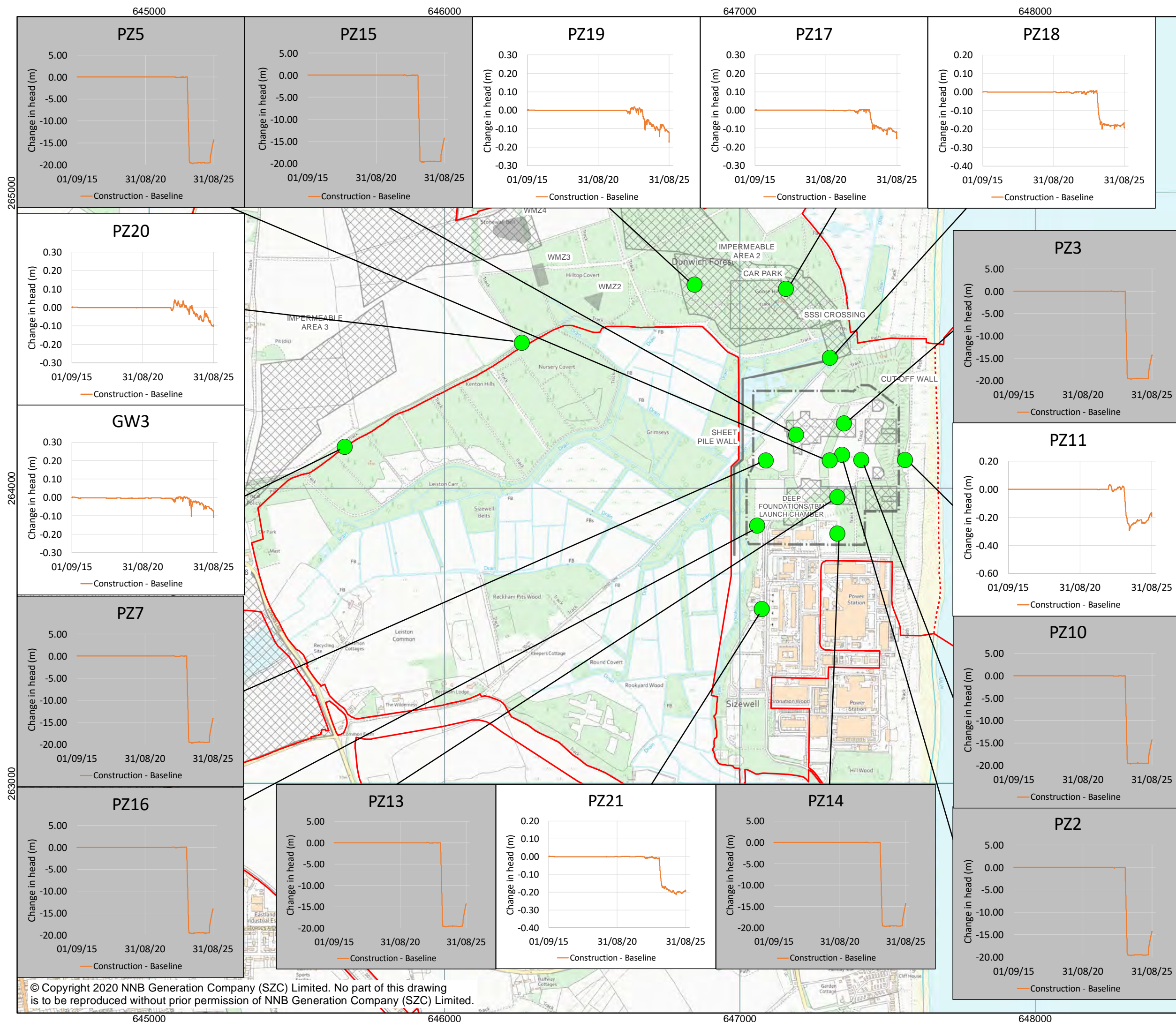
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DOCUMENT:
 SIZEWELL C ENVIRONMENTAL STATEMENT VOLUME 2 APPENDIX 19A NUMERICAL MODELLING REPORT

SCALE BAR

0 0.1 0.2 0.3 0.4 0.5 KM





NOTES

HYDROGRAPHS OF BOREHOLES WITHIN FOOTPRINT OF PROPOSED DEVELOPMENT ARE SHOWN IN GREY

INITIAL BASELINE RUNS:
53-B-D-1520d / 2022b / 2232f / 3240d

SENSITIVITY RUNS:
53-UC-VD-2224 / 2225

- KEY**
- CRAG MONITORING BOREHOLES
 - SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
 - - - DEMARCATION LINE
 - MODELLED DEVELOPMENT FEATURES

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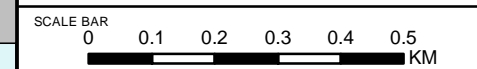


DOCUMENT:
SIZEWELL C
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APPENDIX 19A
NUMERICAL MODELLING REPORT

DRAWING TITLE:
PROJECTED CHANGES IN SIMULATED WATER LEVELS IN THE SHALLOW CRAG FROM CONSTRUCTION DURING EXTREME DROUGHT (2022-2025)

DRAWING NO:
FIGURE 19A.128

DATE: JAN 2020 DRAWN: M.S. SCALE: 1:12,000 @A3

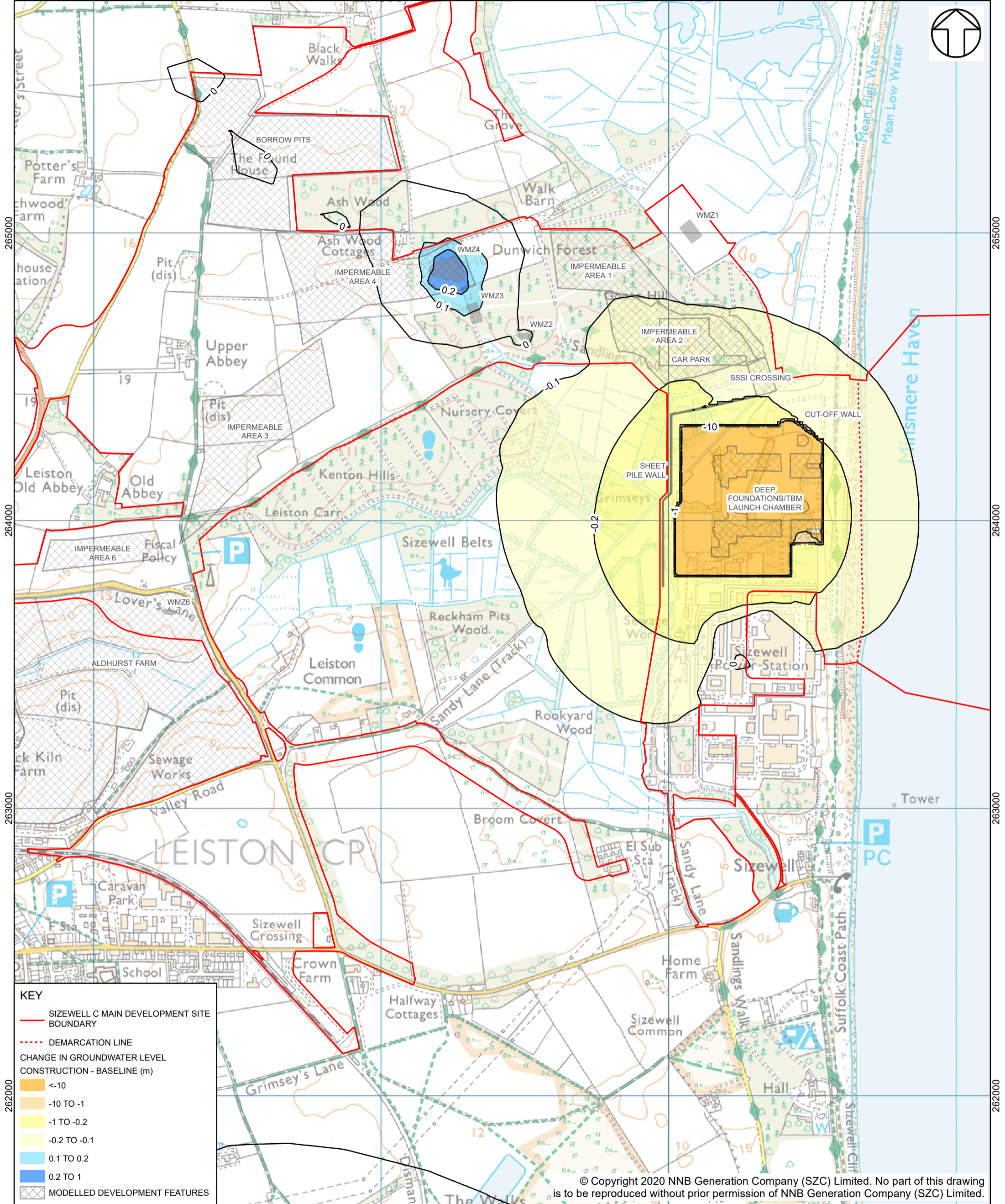


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KEY

- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- - - DEMARCATION LINE
- CHANGE IN GROUNDWATER LEVEL CONSTRUCTION - BASELINE (m)**
- < -10
- 10 TO -1
- 1 TO -0.2
- 0.2 TO -0.1
- 0.1 TO 0.2
- 0.2 TO 1
- MODELLLED DEVELOPMENT FEATURES

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NOTES

BASELINE RUN:
 53-B-D-2232f

INITIAL CONSTRUCTION RUN:
 53-C-D-2432g

SENSITIVITY RUN:
 53-UC-D1-2432

DRAWING TITLE:
 PROJECTED MAXIMUM DRAWDOWN CONTOURS IN THE SHALLOW CRAG DURING CONSTRUCTION IN EXTREME DROUGHT (26 DECEMBER 2024)

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DRAWING NO:
 FIGURE 19A.129

DATE:
 JAN 2020

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SCALE:
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DOCUMENT:
 SIZEWELL C ENVIRONMENTAL STATEMENT VOLUME 2 APPENDIX 19A NUMERICAL MODELLING REPORT

SCALE BAR
 0 0.1 0.2 0.3 0.4 0.5 KM





NOTES

G7 OMITTED DUE TO LOCATION WITH MAIN DEVELOPMENT SITE

BASILINE RUNS:
53-B-D-1520d / 2022b / 2232f / 3240d

SENSITIVITY RUNS:
53-UC-VD-2224 / 2425

KEY

- SURFACE WATER GAUGING LOCATIONS
- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- DEMARCATION LINE
- MODELLED DEVELOPMENT FEATURES



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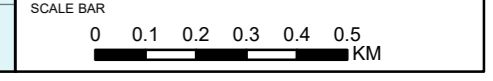


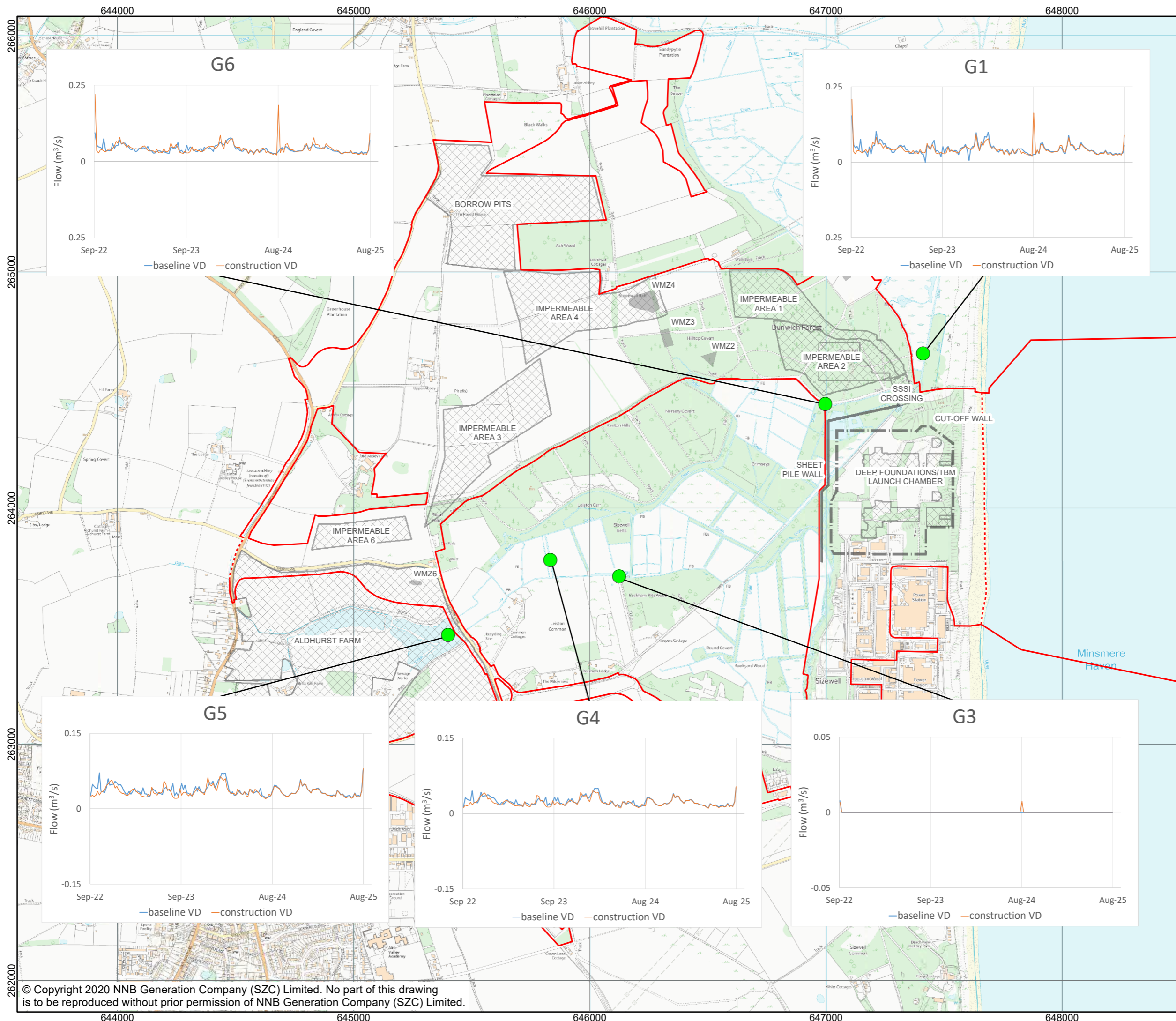
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VOLUME 2
APPENDIX 19A
NUMERICAL MODELLING REPORT

DRAWING TITLE:
SIMULATED STAGE AT STREAM
GAUGING LOCATIONS DURING
EXTREME DROUGHT (2022-2025)

DRAWING NO:
FIGURE 19A.130

DATE: JAN 2020 **DRAWN:** M.S. **SCALE:** 1:15,000 @A3





NOTES

G7 OMITTED DUE TO LOCATION WITH MAIN DEVELOPMENT SITE

BASELINE RUNS:
53-B-D-1520d / 2022b / 2232f / 3240d

SENSITIVITY RUNS:
53-UC-VD-2224 / 2425

KEY

- SURFACE WATER GAUGING LOCATIONS
- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- - - DEMARCATION LINE
- MODEL DEVELOPMENT FEATURES



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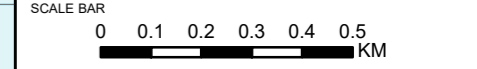


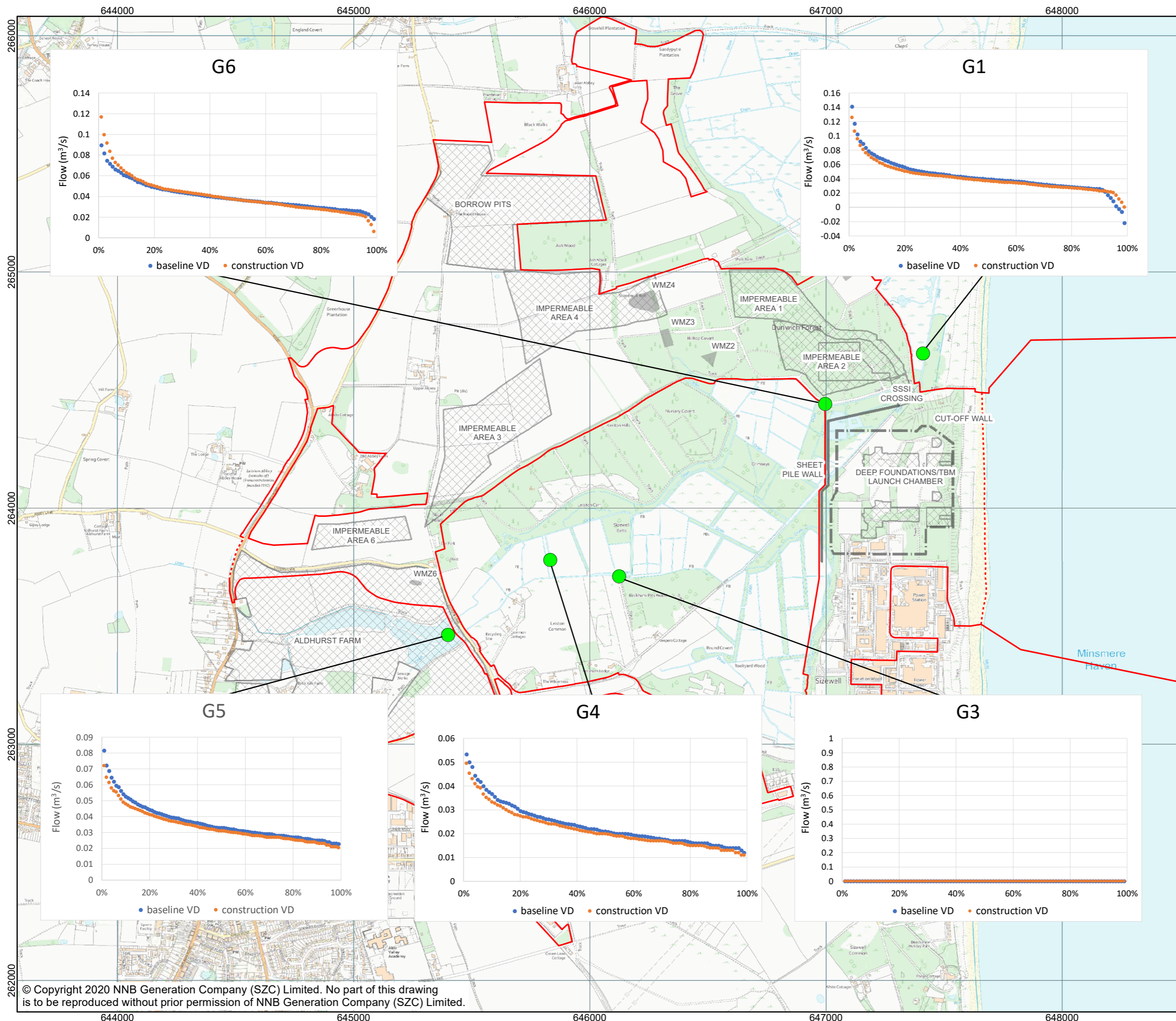
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SIZEWELL C
ENVIRONMENTAL STATEMENT
VOLUME 2
APPENDIX 19A
NUMERICAL MODELLING REPORT

DRAWING TITLE:
SIMULATED WATER FLOW AT
STREAM GAUGING LOCATIONS
DURING EXTREME DROUGHT
(2022-2025)

DRAWING NO:
FIGURE 19A.131

DATE: JAN 2020 **DRAWN:** M.S. **SCALE:** 1:15,000 @A3





NOTES

G7 OMITTED DUE TO LOCATION WITH MAIN DEVELOPMENT SITE

BASILINE RUNS:
53-B-D-1520d / 2022b / 2232f / 3240d

SENSITIVITY RUNS:
53-UC-VD-2224 / 2425

- KEY**
- SURFACE WATER GAUGING LOCATIONS
 - SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
 - DEMARCATION LINE
 - MODELLED DEVELOPMENT FEATURES

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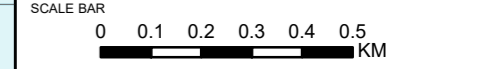


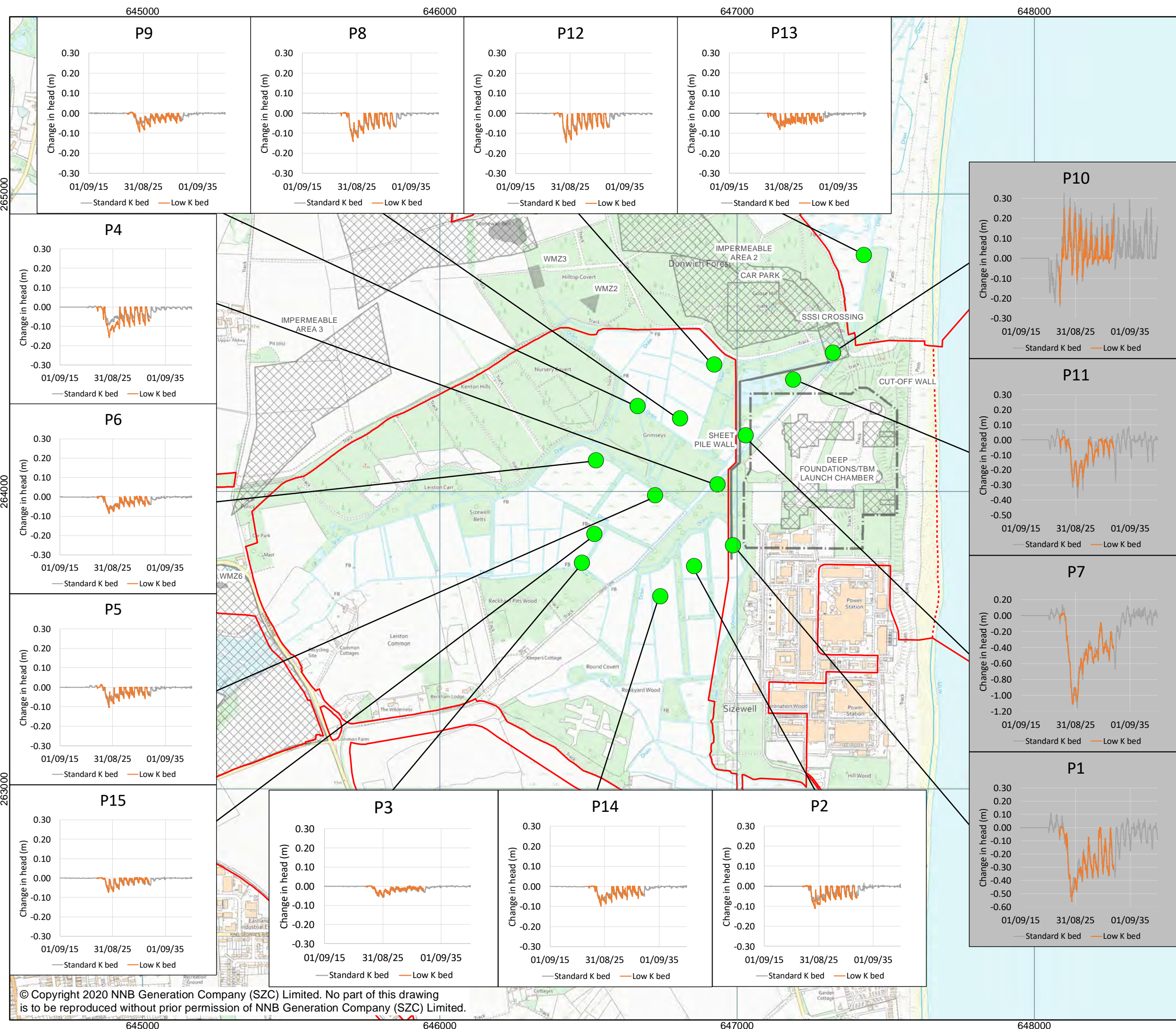
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SIZEWELL C ENVIRONMENTAL STATEMENT VOLUME 2 APPENDIX 19A NUMERICAL MODELLING REPORT

DRAWING TITLE:
SIMULATED WATER FLOW DURATION CURVES AT STREAM GAUGING LOCATIONS UNDER EXTREME DROUGHT (2022-2025)

DRAWING NO:
FIGURE 19A.132

DATE: JAN 2020 **DRAWN:** M.S. **SCALE:** 1:15,000 @A3





NOTES



HYDROGRAPHS OF BOREHOLES WITHIN FOOTPRINT OF PROPOSED DEVELOPMENT ARE SHOWN IN GREY

INITIAL BASELINE RUNS:
53-B-I-1520e / 2022f / 2232f / 3240d

INITIAL CONSTRUCTION RUNS:
53-C-I-1520b / 2022a / 2224e / 2432g / 3240e

SENSITIVITY RUNS:
53-UB-I2-2232
53-UC-I2-2224a / 2432

KEY

- PEAT MONITORING BOREHOLES
- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- - - DEMARCATION LINE
- MODELLED DEVELOPMENT FEATURES

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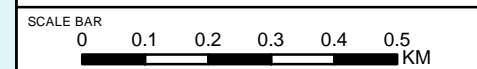


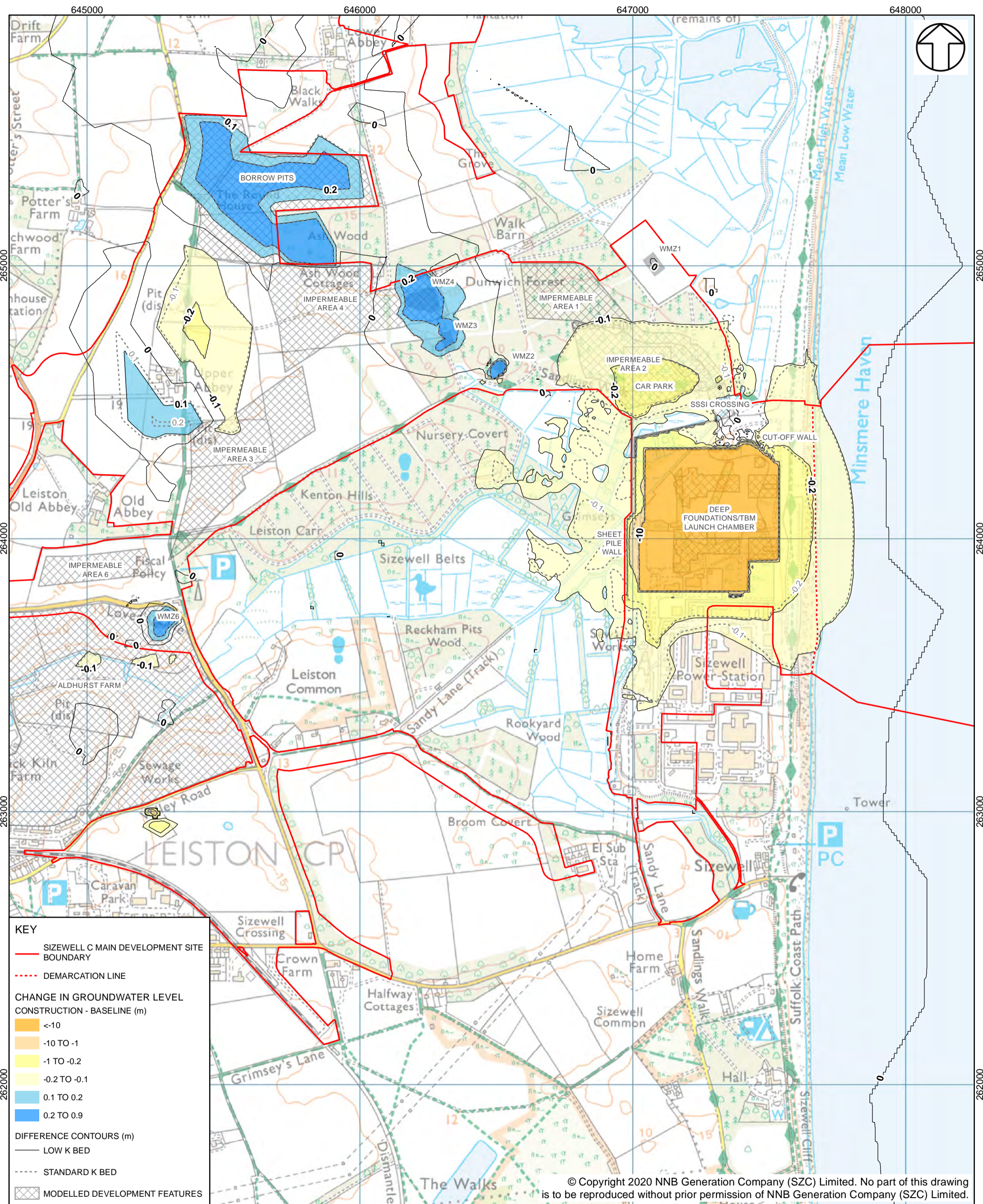
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VOLUME 2
APPENDIX 19A
NUMERICAL MODELLING REPORT

DRAWING TITLE:
PROJECTED CHANGES IN SIMULATED
GROUNDWATER LEVELS IN THE PEAT:
REDUCED STREAM BED CONDUCTANCE
(2022-2032)

DRAWING NO:
FIGURE 19A.133

DATE: JAN 2020 DRAWN: M.S. SCALE: 1:12,000 @A3





KEY

- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- DEMARCATION LINE

CHANGE IN GROUNDWATER LEVEL CONSTRUCTION - BASELINE (m)

- <math><-10</math>
- 10 TO -1
- 1 TO -0.2
- 0.2 TO -0.1
- 0.1 TO 0.2
- 0.2 TO 0.9

DIFFERENCE CONTOURS (m)

- LOW K BED
- STANDARD K BED
- ▨ MODELLED DEVELOPMENT FEATURES

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NOTE

BASELINE RUN:
 53-B-I-2232f

INITIAL CONSTRUCTION RUN:
 53-C-I-2432g

SENSITIVITY RUNS:
 53-UB-I2-2232
 53-UC-I2-2224a/ 2432

DRAWING TITLE:
 PROJECTED MAXIMUM DRAWDOWN CONTOURS IN THE WATER TABLE AQUIFER: REDUCED STREAM BED CONDUCTANCE (26 DECEMBER 2024)

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DRAWING NO.:
 FIGURE 19A.134

DATE:
 JAN 2020

DRAWN:
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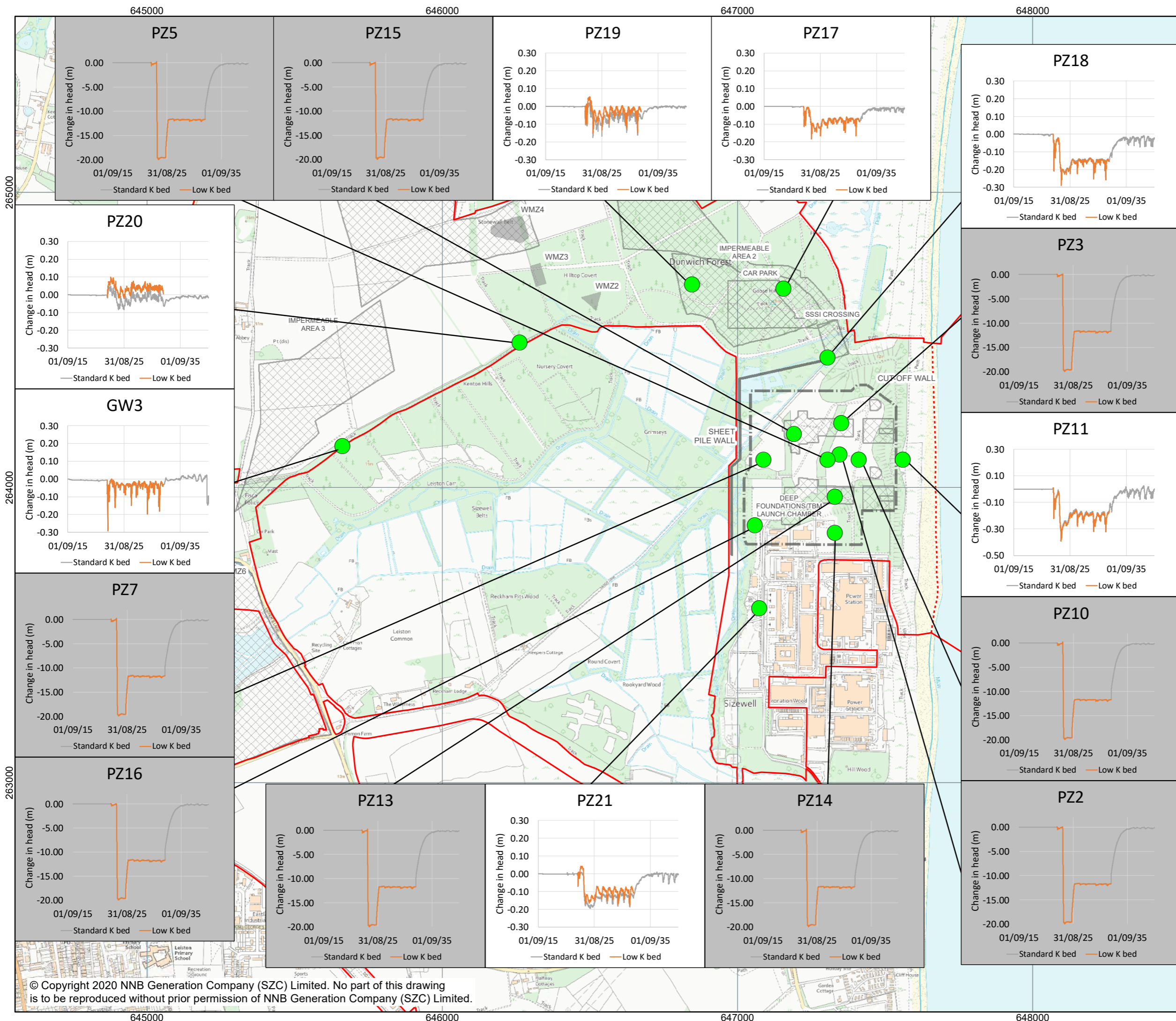
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DOCUMENT:
 SIZEWELL C ENVIRONMENTAL STATEMENT VOLUME 2 APPENDIX 19A NUMERICAL MODELLING REPORT

SCALE BAR

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NOTES

HYDROGRAPHS OF BOREHOLES WITHIN FOOTPRINT OF PROPOSED DEVELOPMENT ARE SHOWN IN GREY

INITIAL BASELINE RUNS:
53-B-I-1520e / 2022f / 2232f / 3240d

INITIAL CONSTRUCTION RUNS:
53-C-I-1520b / 2022a / 2224e / 2432g / 3240e

SENSITIVITY RUNS:
53-UC-I1-2224a / 2432

KEY

- CRAG MONITORING BOREHOLES
- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- - - DEMARCATION LINE
- MODELLED DEVELOPMENT FEATURES

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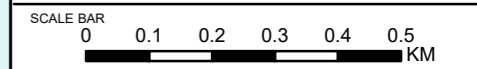


DOCUMENT:
SIZEWELL C
ENVIRONMENTAL STATEMENT
VOLUME 2
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NUMERICAL MODELLING REPORT

DRAWING TITLE:
PROJECTED CHANGES IN SIMULATED GROUNDWATER LEVELS IN THE SHALLOW CRAG: REDUCED STREAM BED CONDUCTANCE (2022-2032)

DRAWING NO:
FIGURE 19A.135

DATE: JAN 2020 **DRAWN:** M.S. **SCALE:** 1:12,000 @A3

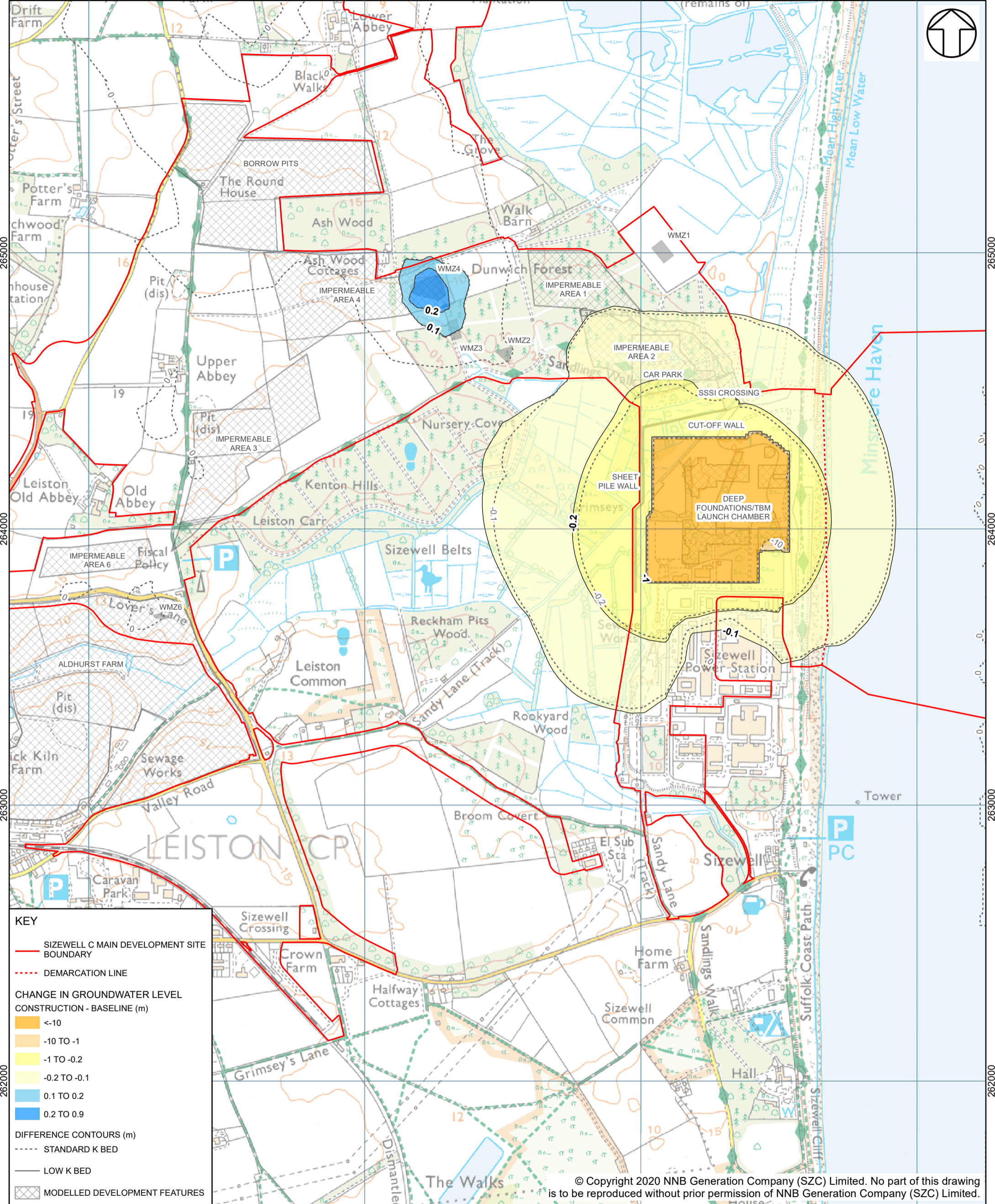


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NOTES

BASELINE RUNS:
 53-B-I-2232f
 INITIAL CONSTRUCTION RUNS:
 53-C-I-2432g
 SENSITIVITY RUNS:
 53-UB-I2-2232
 53-UC-I2-2224a/ 2432

DRAWING TITLE:
 PROJECTED MAXIMUM DRAWDOWN CONTOURS IN THE SHALLOW CRAIG: REDUCED STREAM BED CONDUCTANCE (26 DECEMBER 2024)

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DRAWING NO:
 FIGURE 19A.136

DATE:
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SCALE BAR
 0 0.1 0.2 0.3 0.4 0.5 KM





NOTES

G7 OMITTED DUE TO LOCATION WITH MAIN DEVELOPMENT SITE

SENSITIVITY RUNS:
53-UB-12-2232
53-UC-12-2224a /2432

KEY

- SURFACE WATER GAUGING LOCATIONS
- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- DEMARCATION LINE
- MODELLED DEVELOPMENT FEATURES

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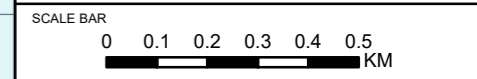
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DOCUMENT:
SIZEWELL C
ENVIRONMENTAL STATEMENT
VOLUME 2
APPENDIX 19A
NUMERICAL MODELLING REPORT

DRAWING TITLE:
SIMULATED STAGE AT STREAM GAUGING LOCATIONS: REDUCED STREAM BED CONDUCTANCE (2022-2032)

DRAWING NO:
FIGURE 19A.137
DATE: JAN 2020 DRAWN: M.S. SCALE: 1:15,000 @A3





NOTES

G7 OMITTED DUE TO LOCATION WITH MAIN DEVELOPMENT SITE

SENSITIVITY RUNS:

53-UB-I2-2232
53-UC-I2-2224a /2432

KEY

- SURFACE WATER GAUGING LOCATIONS
- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- - - DEMARCATION LINE
- MODELLED DEVELOPMENT FEATURES



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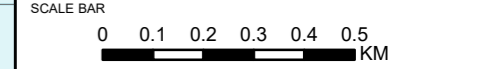


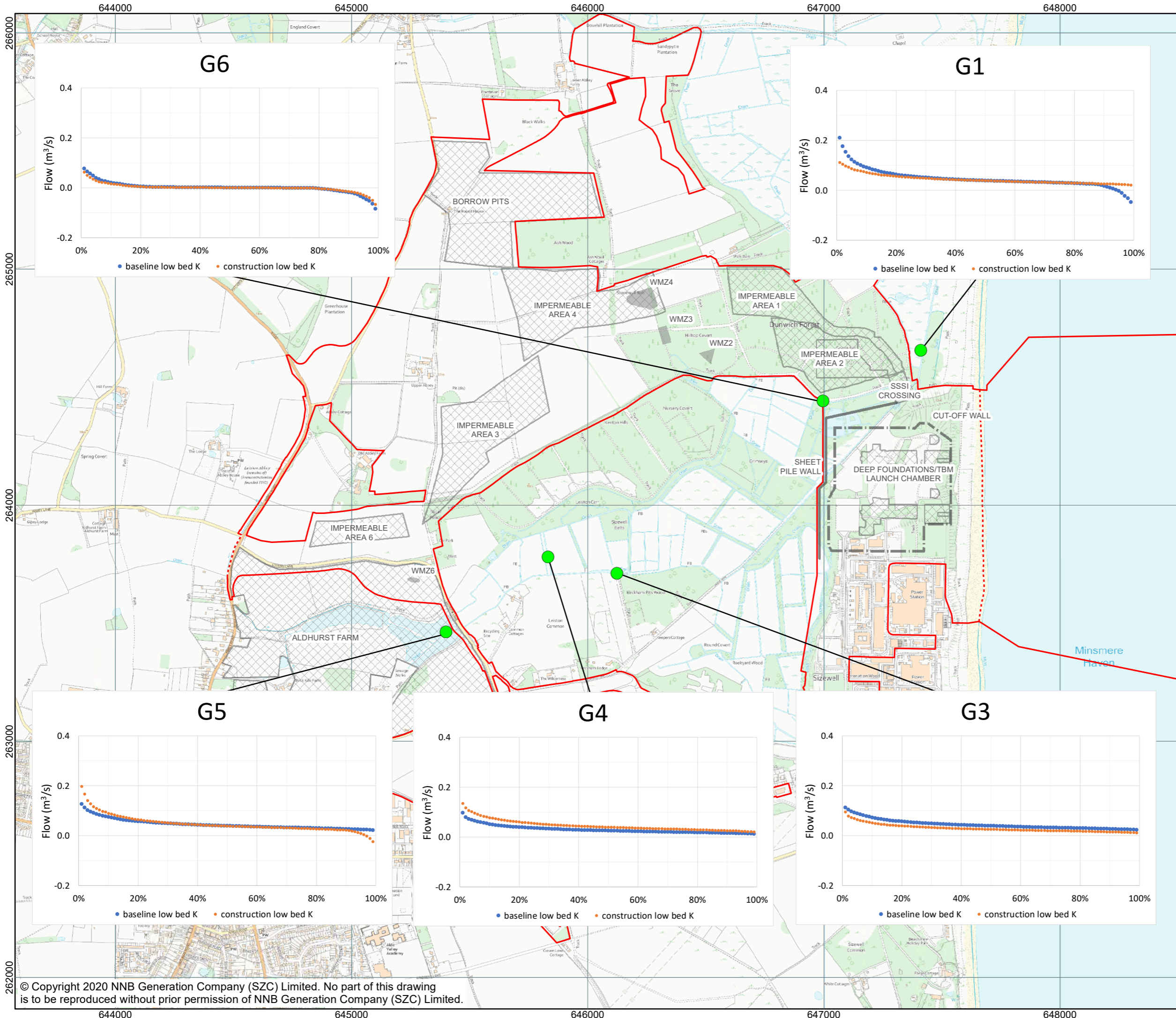
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SIZEWELL C
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VOLUME 2
APPENDIX 19A
NUMERICAL MODELLING REPORT

DRAWING TITLE:
SIMULATED FLOW AT STREAM GAUGING LOCATIONS: REDUCED STREAM BED CONDUCTANCE (2022-2032)

DRAWING NO:
FIGURE 19A.138

DATE: JAN 2020 DRAWN: M.S. SCALE: 1:15,000 @A3





NOTES

G7 OMITTED DUE TO LOCATION WITH MAIN DEVELOPMENT SITE

SENSITIVITY RUNS:
53-UB-I2-2232
53-UC-I2-2224a /2432

KEY

- SURFACE WATER GAUGING LOCATIONS
- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- DEMARCATION LINE
- MODELLED DEVELOPEMNT FEATURES

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SIZEWELL C
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NUMERICAL MODELLING REPORT

DRAWING TITLE:
SIMULATED FLOW DURATION CURVES AT
STREAM GAUGING LOCATIONS: REDUCED
STREAM BED CONDUCTANCE (2022-2032)

DRAWING NO:
FIGURE 19A.139

DATE: JAN 2020 **DRAWN:** M.S. **SCALE:** 1:15,000 @A3

