West Burton Solar Project

Environmental Statement Addendum: Chapter 10: Hydrology, Flood Risk and Drainage

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Contents

| <u>1</u> | INTRODUCTION | 3 |
|----------|---|---|
| <u>2</u> | UPDATES TO ES CHAPTER 10: HYDROLOGY, FLOOD RISK AND DRAINAGE | 4 |
| 2.1 | REQUIREMENT FOR THE UPDATE | 4 |
| 2.2 | Consultation | 4 |
| 2.3 | EMBEDDED MITIGATION | 4 |
| <u>3</u> | UPDATES TO ES APPENDICES 10.3 AND 10.4: FLOOD RISK ASSESSMENT AND DRAINAGE STRATEGIES | 5 |
| 3.1 | REQUIREMENT FOR THE UPDATE | 5 |
| 3.2 | ES APPENDIX 10.3: ANNEX D – ILLUSTRATIVE LAYOUT PLAN | 5 |
| 3.3 | ES Appendix 10.4: Annex D – Illustrative Layout Plan | 5 |
| <u>4</u> | SUMMARY | 6 |

APPENDIX A: WEST BURTON 1 ILLUSTRATIVE SITE LAYOUT PLAN
APPENDIX B: WEST BURTON 2 ILLUSTRATIVE SITE LAYOUT PLAN



Issue Sheet

Report Prepared for: West Burton Solar Project Ltd. Examination Deadline 1

Environment Statement Addendum Chapter 10: Hydrology, Flood Risk and Drainage

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1 Introduction

- 1.1.1 This document is an addendum to the hydrology, flood risk and drainage assessment included within the following submitted documents:
 - 6.2.10 Environmental Statement Chapter 10: Hydrology, Flood Risk and Drainage [APP-048];
 - 6.3.10.3 Environmental Statement Appendix 10.3 Flood Risk Assessment and Drainage Strategy for West Burton 1 [APP-091]; and
 - 6.3.10.4 Environmental Statement Appendix 10.4 Flood Risk Assessment and Drainage Strategy for West Burton 2 [APP-092].
- 1.1.2 This Addendum report should be read in conjunction with the above listed documents. This Addendum updates certain elements of these documents and does not replace them.
- 1.1.3 In response to comments made in the relevant representations, this addendum has been prepared to provide additional information relating to:
 - Service crossing below the bed of a main river not involving an open cut technique ('FRA3') methodology¹;
 - Clarity on the proposed mitigation measures for locating conversion units in relation to anticipated flood levels; and
 - The location of the River Till Flood Storage Areas in relation to the indicative site layouts for the Sites at West Burton 1 and West Burton 2.
- 1.1.4 The objective of this addendum is to ensure consistency of embedded mitigation relating to FRA3 across the application documents and to make it clear that 'FRA3' methodology is being adopted. Furthermore, this addendum is to provide information to the Environment Agency at their request in their Relevant Representation [RR-090].

¹ Service crossing below the bed of a main river not involving an open cut technique (FRA3): https://www.gov.uk/government/publications/environmental-permitting-regulations-exempt-flood-risk-activities/exempt-flood-risk-activities-environmental-permits



2 Updates to ES Chapter 10: Hydrology, Flood Risk and Drainage

2.1 Requirement for the Update

2.1.1 The following sections of **6.2.10 Environmental Statement Chapter 10: Hydrology, Flood Risk and Drainage [APP-048]** have been updated in respect of the FRA3 methodology to ensure consistency of embedded mitigation and address the Environment Agency's concerns as set out in their Relevant Representation [RR-090].

2.2 Consultation

- 2.2.1 Table 10.1: Consultation within Section 10.2 of ES: Chapter 10 [APP-048] sets out the consultation responses to the EIA Scoping and Statutory Consultation stages.
- 2.2.2 The table references the following consultee: Witham 3 Internal Drainage Board (IDB). Correction to the consultee is made as follows: Upper Witham Internal Drainage Board (IDB). The amendment does not alter the Applicant's responses as set out in Table 10.1: Consultation of the submitted ES: Chapter 10 [APP-048].

2.3 Embedded Mitigation

- 2.3.1 Section 10.7 of ES: Chapter 10 [APP-048] provides an overview of measures that have been identified and adopted within the Scheme design which are considered to be embedded mitigation. Additional measures have been identified to ensure consistency of embedded mitigation with the FRA3 and to ensure consistency across the application documents. The additional measures are set out below:
 - All works involving the crossing of a main river will be done in accordance with 'Service crossing below the bed of a main river not involving an open cut technique (FRA3)' methodology.
 - Electrical infrastructure associated with the panels can be adequately waterproofed to withstand the effect of flooding.
 - Where possible the sensitive electrical equipment associated with the panels
 has been located in parts of the Site that are within Flood Zone 1. Where this
 hasn't been possible, in any event equipment will be raised 0.6 m above the
 0.1% Annual Exceedance Probability (AEP) flood level or, where this is not
 possible, as high as practicable.
- 2.3.2 There are no other changes proposed that would alter the embedded mitigation chapter as set out in the submitted ES: Chapter 10 [APP-048].



3 Updates to ES Appendices 10.3 and 10.4: Flood Risk Assessment and Drainage Strategies

3.1 Requirement for the Update

3.1.1 The following sections of **6.3.10.3 Environmental Statement - Appendix 10.3 Flood Risk Assessment and Drainage Strategy for West Burton 1 [APP-091]** and **6.3.10.4 Environmental Statement - Appendix 10.4 Flood Risk Assessment and Drainage Strategy for West Burton 2 [APP-092]** have been updated in respect of the request made by the Environment Agency set out in their Relevant Representation [RR-090], to show the River Till Flood Storage Areas in relation to the illustrative site layout plans for the effected Sites at West Burton 1 and West Burton 2.

3.2 ES Appendix 10.3: Annex D – Illustrative Layout Plan

- 3.2.1 Annex D Illustrative Layout Plan at page 24 of **6.3.10.3 Environmental Statement** Appendix **10.3 Flood Risk Assessment and Drainage Strategy for West Burton 1 [APP-091]** is to be updated to show the extent of the River Till Flood Storage Area and the area of the Order Limits that falls within the area. The updated plan is shown at Appendix A below. This is the same as the revised plan WB6.4.4.1_A ES Figure 4.1
 Illustrative Site Layout Plan West Burton 1 Revision A [EN010132/EX1/WB6.4.4.1_A] as submitted at Deadline 1.
- 3.2.2 There are no other changes proposed to the submitted ES Appendix 10.3 [APP-091].

3.3 ES Appendix 10.4: Annex D – Illustrative Layout Plan

- 3.3.1 Annex D Illustrative Layout Plan at page 24 of **6.3.10.4 Environmental Statement** Appendix **10.4 Flood Risk Assessment and Drainage Strategy for West Burton 2 [APP-092]** is to be updated to show the extent of the River Till Flood Storage Area and the area of the Order Limits that falls within the area. The updated plan is shown at Appendix B below. This is the same as the revised plan WB6.4.4.2_A ES Figure 4.2
 Illustrative Site Layout Plan West Burton 2 Revision A [EN010132/EX1/WB6.4.4.2_A] as submitted at Deadline 1.
- 3.3.2 There are no other changes proposed to the submitted ES Appendix 10.4 [APP-092].



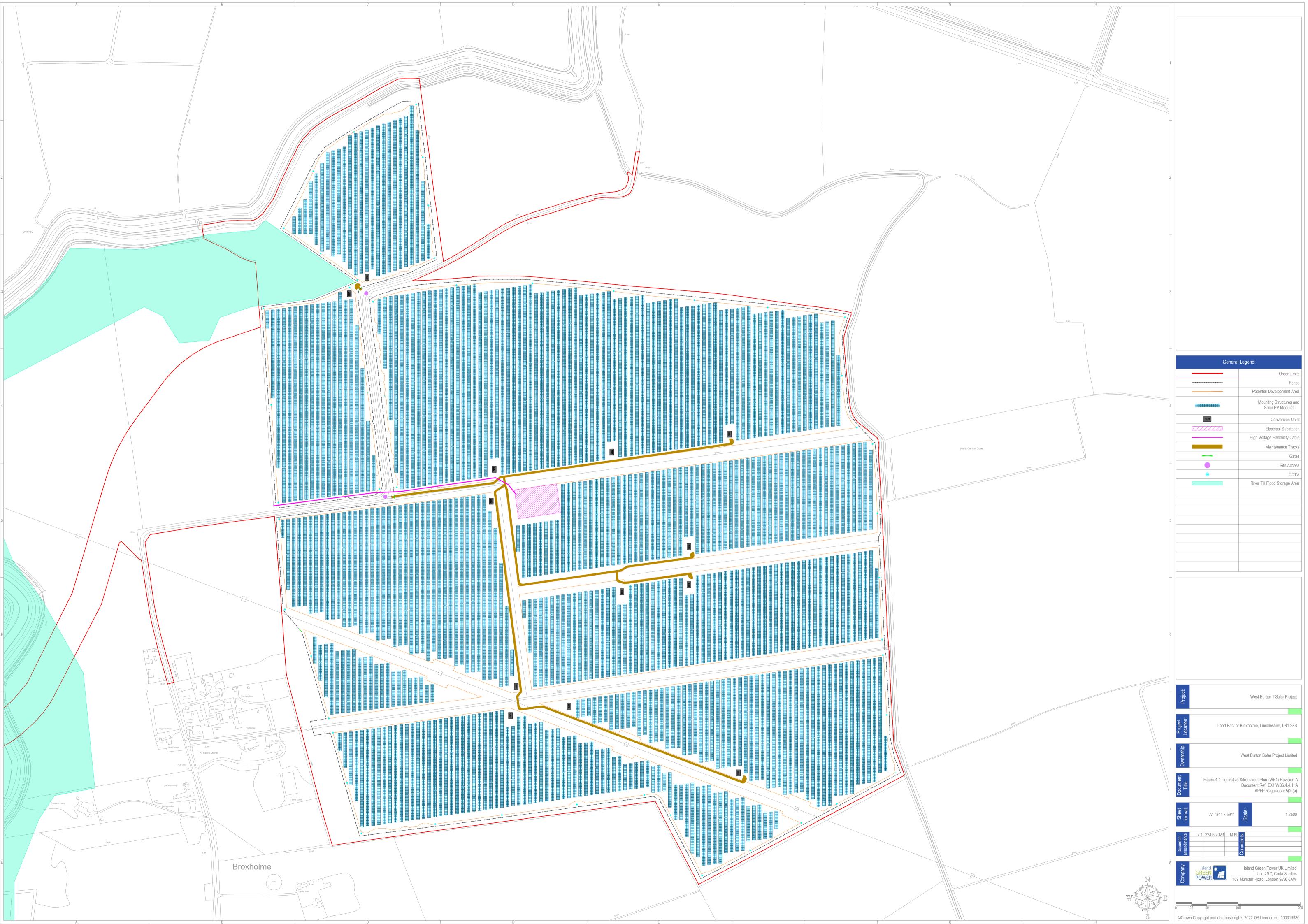


4 Summary

4.1.1 In summary, the Embedded Mitigation as set out in ES Chapter 10 [APP-048] has been reviewed and additional measures are proposed to ensure consistency of embedded mitigation with the FRA3 and to ensure consistency across the application documents embedded mitigation. The location of the River Till Flood Storage Areas in relation to the indicative site layouts for the Sites at West Burton 1 and West Burton 2 has also been shown as requested. There are no other changes to the effects or mitigation measures as identified in ES Appendices 10.3 [APP-091] and 10.4 [APP-092].



Appendix A: West Burton 1 Illustrative Site Layout Plan





Appendix B: West Burton 2 Illustrative Site Layout Plan

