



Table A: Loss of Floodplain Storage Volume Summary

Level slice (m AOD)	Volume Lost (m³)
4.00-4.20	268
4.20-4.40	2647
4.40-4.60	4457
4.60-4.80	333

Table B: Flood Compensation Volumes Summary

Level slice (m AOD)	Volume Provided by Compensation (m³)					Total (m³)
	Area A	Area B	Area C	Area D	Area E	
4.00-4.20	8	1	219	42	0	270
4.20-4.40	540	690	248	1564	275	3317
4.40-4.60	795	1207	49	1698	836	4585
4.60-4.80	336	386	4	425	306	1749

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For Planning
This drawing is produced for the purposes of supporting a planning application and should not be relied upon for tender, pricing, or construction purposes.

KEY

- Site Boundary
 - 7m Watercourse Maintenance Buffer
 - Watercourse
 - SUDS Feature Earthworks
 - Existing Levels (LiDAR DTM)
 - Flood Defence Bund
Top Level: 5.22m AOD
Top Width: 1m
Side Slopes: 1:3m
Assumed Flood Level: 4.614m AOD
 - Area protected by Flood Defence Bund / Flood storage volume lost
 - Preliminary Floodplain Compensation Design Substrate at cut/2%
- | Height Bands | Cut Volume |
|-------------------|-------------------|
| Cut 0m - 0.1m | 3181.11m³ |
| Cut 0.1m - 0.2m | 2981.31m³ |
| Cut 0.2m - 0.3m | 2237.09m³ |
| Cut 0.3m - 0.4m | 1286.20m³ |
| Cut 0.4m - 0.5m | 428.64m³ |
| Cut 0.5m - 0.6m | 111.79m³ |
| Cut 0.6m - 0.7m | 31.47m³ |
| Cut 0.7m - 0.8m | 1.87m³ |
| Total Cut: | 10163.42m³ |

NOTES

1. Drawing based on Substation/BESS Block Plan, produced by Enso Energy, Drawing No. DX-01-P42, (Dated 03/05/23).
2. Drawing is based on 1m DTM LiDAR data. Environment Agency copyright and/or database right 2022. All rights reserved. Attribution Statement: © Environment Agency copyright and/or database right 2015. All rights reserved.
3. Surface water drainage for the BESS area subject to detailed design and technical approval.
4. Drawing to be read in conjunction with Flood Risk Assessment (including drainage strategy), Document Reference: E216-0001-19A.
5. Earth Flood Defence Bund is indicative only and subject to detailed design and technical approval.
6. Floodplain compensation areas are preliminary and subject to detailed design and technical approval. Design to be updated to reflect the results of the site-specific flood modeling and topographical survey.
7. No bulking factor has been applied to earthworks volumes stated.

Rev	Date	Description	Drawn	Check
#	23/08/23	First Issue	DAB	BF

Status **FOR PLANNING**

Client
Enso Green Holdings D Limited

Project
Helios Renewable Energy Project

Drawing Title
BESS Flood Compensation Earthworks

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