ADDENDUM TO FLOOD RISK ASSESSMENT

Land at Hoyland Common, Barnsley, S74 0EA

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Prepared by:

RPS

Steven Hall
Technical Director - Highways

Sherwood House
Sherwood Avenue
Nottinghamshire
NG24 1QQ

T +44 1636 605 700
E steven.hall@rpsgroup.com

Prepared for:

Newlands Development

Graham Pardoe
Managing Director

Lumonics House
Valley Drive
Rugby
CV21 1TQ

T 01788 422 197
E Graham.Pardoe@newlandsuk.com

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1 INTRODUCTION

1.1 In June 2020, RPS prepared a Flood Risk Assessment to support a Planning Application (2020/0647/FUL) for a development on land at Hoyland Common, Barnsley. Following receipt of Planning Consent, negotiations on the adoption of the proposed surface water drainage system has resulted in Yorkshire Water requesting changes to the proposed surface water attenuation.

1.2 The requested changes have resulted in the proposed attenuation pond being replaced with two separate dry attenuation basins. The first basin, to be adopted by Yorkshire Water, will cater for storm events up to 1 in 30 year storm event. Once a storm event exceeds 1 in 30 year return, water will enter a second dry basin (via a weir) which will provide storage for the 1 in 100 year plus climate change event.

1.3 This Addendum to the consented Flood Risk Assessment considers if this change to the attenuation results in any changes to the flood risk.

2 DEVELOPMENT PROPOSALS

2.1 The existing topography, catchment areas and development proposals considered in the June 2020 Flood Risk Assessment are still applicable. The rate and point of discharge to the existing watercourse also remain unchanged.

3 JUNE 2020 IDENTIFIED FLOOD RISK

3.1 The June 2020 Flood Risk Assessment identified the site as being within Flood Zone 1, whereby the annual probability of fluvial and/or tidal flooding is classified as less than 1 in 1,000.

3.2 In respect of pluvial flooding reference to the Long Term Surface Water Flood Map, indicated that the site is predominantly shown to have a 'very low' (flooding occurring as a result of a rainfall with less than 1 in 1,000 chance in any given year) risk of surface water flooding.

3.3 The FRA did identify that the site is located within an area that would not be impacted by flooding in the event of reservoir failure.

3.4 The proposed changes to the surface water storage attenuation do not change these previously identified flood risks nor add any others.

4 FLOOD RISK MITIGATION

4.1 The June 2020 FRA identified the following flood mitigation measures:

- Fluvial flooding

  "Based on the above assessment the risk of fluvial flooding is considered to be low, therefore no mitigation is considered necessary."

- Flooding from Sewers

  "Based on the above the risk of flooding from sewers is considered to be low, therefore no mitigation is required for the proposed development."

- Surface Water flooding (overland flow)

  "Based on the above, the risk of surface water flooding is considered to be low. Notwithstanding, floor levels of the proposed development will be altered from the existing ground and mitigation including a dedicated surface water drainage network will provide for reducing the potential for the ingress of water in the event of surface water flooding. The drainage for the site includes an allowance for the small flow path from the adjacent allotments. It is recommended that either buildings are raised up slightly compared to external ground levels or external ground levels are graded away from the buildings."

- Groundwater Flooding

  "Based on the above, the risk of groundwater flooding is considered to be low therefore at this stage no mitigation is considered to be necessary. This position should be further considered upon conclusion of the site investigation program and finalisation of levels for the site."

- Other Sources

  "Based on the above, the risk of flooding from artificial sources is considered to be low. It is recommended that either buildings are raised up slightly compared to external ground levels or external ground levels are graded away from the buildings."

4.2 These mitigation measures are not affected as a result of the proposed changes to the surface water attenuation.

5 SUMMARY AND CONCLUSION

5.1 Yorkshire Water has requested that the surface water attenuation facility proposed in the consented scheme be changed, as described above.

5.2 The June 2020 FRA prepared in support of the consented scheme, identified low risk of flooding to or as a result of the development.

5.3 The proposed changes to the surface water attenuation does not change the point of connection or rate of discharge to the watercourse.

5.4 The proposed changes to surface water attenuation provides the same 1 in 100 years plus climate change protection as the original consented proposals.

5.5 Therefore, the changes to the surface water attenuation does not change the conclusions and / or recommendation of the June 2020 FRA.