### Environmental Protection Act 1990, Section 78H(6) (the 1990 Act)

The Contaminated Land (England) Regulations 2006 (SI 2006 No. 1380)

#### Remediation Declaration prepared by the Environment Agency

The Environment Agency (the Agency) has prepared this Remediation Declaration in relation to contaminated land identified by Cheltenham Borough Council under section 78B of the 1990 Act, and designated as a Special Site under section 78C of the 1990 Act.

The location and extent of the contaminated land to which this Remediation Declaration relates (the Land) are set out in Schedule 1.

The Agency, as enforcing authority in relation to the Land, is precluded by section 78E(4) or (5) of the 1990 Act from serving a Remediation Notice and has therefore prepared this Remediation Declaration in accordance with section 78H(6).

The remediation and the reasons why the Agency would have specified those things to be done by way of remediation are set out in Schedule 2. The grounds on which the Agency is satisfied that it is precluded from specifying each such thing in a Remediation Notice are also set out in Schedule 2.

Particulars of the substances and pollution of controlled waters by reason of which the Land is contaminated land are set out in Schedule 3.

The current use of the Land includes public open space and private sporting facilities comprising of;

- a) Part of the Marle Hill Approach Golf Course, Pittville Park.
- b) Part of the Prince of Wales Stadium and adjoining Playing Field.
- c) The Prince of Wales Stadium Car Park.

The Agency's address and other contact details for the purposes of this Remediation Declaration are stated below.

Signed: .....

Position: Area manager

Date: .....

The Agency's address for the purposes of this Remediation Declaration is:

Riversmeet House Newtown Industrial Estate Ashchurch Tewkesbury Gloucestershire GL20 8JG

## The contact name for the purposes of this Remediation Declaration is:

Helen Pickering Technical Officer, Groundwater and Contaminated Land Contact number 01684 864310

## Schedule 1- Location and extent of contaminated land

The contaminated land, referred to as Marle Hill, to which this Remediation Declaration relates is shown on Figure 1. The national grid reference for the centre of the site is SO 94712 23786.

The area of land bounded by the Red line on the attached map includes;

- a) Part of the Marle Hill Approach Golf Course, Pittville Park.
- b) Part of the Prince of Wales Stadium and adjoining Playing Field.
- c) The Prince of Wales Stadium Car Park.

Grid Reference: 394712 223786



### Schedule 2

Remediation requirements (Section 78H(6)

SPL: H1 and H2

Remedial actions that would have been required: Options appraisal of measures to prevent build up of gas in residential property.

Why this action is not required: An assessment action was carried out to provide further information to assess the risk from landfill gas migration to residents and residential property adjacent to the former landfill.

Recent monitoring results indicate that soil gas beneath residential properties is unlikely to build up in sufficient concentrations within those properties to represent an unacceptable risk to human health or property. The risk from ground gas to human health and property receptors has been assessed to be minimal and as such does not justify any form of further assessment actions or mitigation measures.

#### SPL: S1, S2, S3

Remedial actions that would have been required: Options appraisal to select appropriate scheme to prevent entry of ammonia, nitrite and nitrate into the Wymans Brook and mitigate the effect of pollution by these substances on water quality.

Why these actions are not required: An additional assessment action was carried out to assess the significance of the impacts of the site on Wymans Brook. Twelve months of water quality monitoring, a fish survey, and 2 ecological surveys, demonstrated that:

- The natural oxidisation of the nitrogenous compounds is likely to be occurring rapidly downstream, resulting in any significant adverse impacts on water quality being localised in extent.
- In addition, the high levels of nitrite recorded upstream from the landfill culvert indicate that there are some additional effects on the pollutant load in the brook.
- Pollution is having an impact on the brook's ability to support a diverse ecology, however, it is considered that other environmental factors are also having an influence the surrounding urban environment, heavy shading, and the input of nitrogen from other sources.

The outcomes of this detailed assessment conclude that in terms of seriousness of harm and the extent of the impact, no remedial treatment actions would be reasonably justified having regard to the cost and to the seriousness of pollution.

# Schedule 3

Particulars of pollution of controlled waters on which the land was originally determined are shown in the table below. The significant pollutant linkage (SPL) numbers are taken from the original determination.

ID	Source	Pathway	Receptor
S1*	Ammonia (N as <sup>+</sup> NH₄)	Direct mixing of landfill leachate discharges	Surface water – Wyman's
	dissolved within landfill	into surface water.	Brook culvert
	leachate	Leaching into groundwater, presence in baseflow.	
S2	Nitrite (N as N0 <sub>2</sub> )	Direct mixing of landfill leachate discharges	Surface water – Wyman's
	dissolved within landfill	into surface water.	Brook culvert
	leachate	Leaching into groundwater, presence in baseflow	
S3	Nitrate (N as NO <sub>3</sub> )	Direct mixing of landfill leachate discharges	Surface water – Wvman's
	dissolved within landfill	into surface water.	Brook culvert
	leachate	Leaching into groundwater, presence in	
		baseflow.	
S4	Copper (Cu) dissolved	Direct mixing of landfill leachate discharges	Surface water – Wyman's
	within landfill leachate	Into surface water.	Brook culvert
		baseflow	
S5	Iron (Fe) dissolved within	Direct mixing of landfill leachate discharges	Surface water – Wyman's
	landfill leachate	into surface water.	Brook culvert
		Leaching into groundwater, presence in	
		baseflow.	
56	Lead (Pb) dissolved	Direct mixing of landfill leachate discharges	Surface water – Wyman's
	within landlill leachate	Into surface water.	Brook cuiven
		baseflow.	
S7	Zinc (Zn) dissolved within	Direct mixing of landfill leachate discharges	Surface water – Wyman's
	landfill leachate	into surface water.	Brook culvert
		Leaching into groundwater, presence in	
	Course (in unceturated	baseflow.	Decenter
U	zone)	Panway	Receptor
G1	Chlorides (Cl-) dissolved	Leaching into groundwater, presence in	Groundwater contained
<u></u>		Dasefilow.	Croundwater contained
62	within landfill leachate	baseflow	within Lower Lias Clay
G3	Sulphate (S as SO <sub>4</sub> )	Leaching into groundwater, presence in	Groundwater contained
	dissolved within landfill	baseflow.	within Lower Lias Clay
	leachate		
G4	Calcium(Ca) dissolved	Leaching into groundwater, presence in	Groundwater contained
05	within landfill leachate	baseflow.	within Lower Lias Clay
G5	Chromium(Cr) dissolved	Leaching into groundwater, presence in	Groundwater contained
66	Nickel (Ni) dissolved	Leaching into groundwater presence in	Groundwater contained
60	within landfill leachate	baseflow.	within Lower Lias Clay
G7	Sodium (Na) dissolved	Leaching into groundwater, presence in	Groundwater contained
	within landfill leachate	baseflow.	within Lower Lias Clay
ID	Source (in unsaturated	Pathway	Receptor
H1	Zone) Carbon Dioxide	Migration through grapular fill materials	Offsite occupants
	(asphyxiant)	inhalation in confined spaces	Residential Property
H2	Methane	Migration through granular fill materials.	Offsite occupants
	(flammable/explosive)	accumulation in confined spaces	Residential Property

- **KEY** S1 \* : Caused failure of relevant water quality standard S2 S7 : Pollutants found in Wyman's Brook G1 G7: Pollutants found in Groundwater H1 & H2: Gases present in on and off-site boreholes