



# Technical Note



<b>CLIENT:</b>	Quercia Ltd	
<b>PROJECT:</b>	Clayton Hall Landfill Site	
<b>SUBJECT:</b>	Monitoring	
<b>JOB NO.:</b>	ST18115 (v1.0)	
<b>DATE:</b>	December 2024	
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## 1 INTRODUCTION

- 1.1.1 Quercia Limited have commissioned Wardell Armstrong to prepare an environmental permit variation application for their Clayton Hall Landfill Site in Chorley, Lancashire.
- 1.1.2 The environmental permit allows the disposal of non-hazardous waste to landfill (permit reference is EPR/BV1364ID).
- 1.1.3 The Site is located approximately 9km south of Preston, at Clayton Hall Sand Quarry, Dawson Lane, Whittle-le-Woods, Chorley, PR6 7DT.
- 1.1.4 The National Grid Reference (NGR) for the Site is SD 56787 22022.
- 1.1.5 Enhance pre-application advice was requested on 25<sup>th</sup> July 2024 and a meeting was held with the Environment Agency on 9<sup>th</sup> October 2024 to discuss the application.
- 1.1.6 Monitoring to be undertaken at the site will continue as described in the existing plans and environmental permit conditions. Brief details are given in the following section.

## 2 ENVIRONMENTAL MONITORING

- 2.1.1 A comprehensive monitoring plan is already in place for the site. It is not expected that this will change as a result of this permit variation. The following monitoring will be carried out in line with Schedule 3 of the permit.

- Monitoring of emissions to air from landfill gas engines and the flare
- Monitoring of leachate levels
- Monitoring of leachate composition
- Monitoring of groundwater upstream and downstream of the site
- Monitoring of the surface water discharge
- Monitoring of landfill gas concentrations from internal and external monitoring points
- Annual topographic survey.

2.1.2 The only expected changes to the monitoring regime at this time are:

- the leachate monitoring point in Phase 4 of Cell 4B will be added to the monitoring schedule;
- an additional borehole will also be added adjacent to BH1065 to allow clarity over the strata being monitored (See paragraph 3.1.5 of the Hydrogeological Risk Assessment Borehole;
- borehole BH111 is no longer monitored (see paragraph 3.3.2 of the HRAR);
- the toe drain from the cell underdrainage will be monitored in accordance with Table S3.10 of the permit; monitoring of ammoniacal nitrogen at this point will give an early warning should any leachate seep through the liner.

2.1.3 The frequency of monitoring and the parameters monitored will be as the extant permit conditions, set out in Schedule 3 of the permit.

2.1.4 A drawing showing the location of the monitoring points (ST18115-502) is attached.

2.1.5 Gas extraction wells and internal gas monitoring wells will be installed in Phase 4 once it is completed. These wells will be added into the monitoring regime at the appropriate time.