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## **PARRY'S QUARRY WASTE TRANSFER STATION**

### **BESPOKE ENVIRONMENTAL PERMIT APPLICATION**

#### **SITE CONDITION REPORT**

Prepared for

**Parry's Landfill Ltd**



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## **BESPOKE ENVIRONMENTAL PERMIT APPLICATION**

### **Site Condition Report**

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## DOCUMENT INFORMATION AND CONTROL SHEET

### Document Status and Approval Schedule

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2661/R/004	Parry's Quarry Waste Transfer Station Site Condition Report

### Issue History

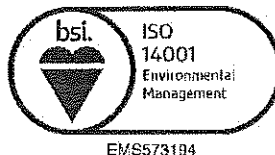
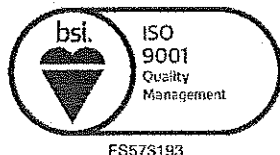
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## **DRAWINGS**

Drawings referred to in this document are provided in the Technical Standards document reference 2661/R/002/01

## **1 INTRODUCTION**

### **1.1 Site Details**

Name of Applicant	Parry's Landfill Ltd
Activity Address	Parry's Quarry Mold Road Alltami Flintshire CH5 3BQ
National Grid Reference	SJ 27544 66301
H5 Document reference	2661/R/004/01
Date for Site Condition Report at permit application	January 2016
Date for Site Condition Report at permit surrender	N/A
Document reference for site plans	2661/R/002/1

### **1.2 Background**

- 1.2.1 This Site Condition Report (SCR) has been prepared by TerraConsult Limited (TCL) on behalf of Parry's Landfill Ltd (PLL) (the Operator) in relation to the proposed Waste Transfer Station (WTS) at the address above. The site layout and location are shown in drawings referenced 2661/1/001 and 2434/1/002 respectively, enclosed in the accompanying Technical Standards document 2661/R/002/1.
- 1.2.2 TCL have compiled a bespoke Environmental Permit application on behalf of the Operator for a municipal, commercial and industrial Waste Transfer Station (WTS) activity to be carried out inside a building. Activities on the site will consist of the temporary storage and transfer of municipal, commercial and industrial waste. This SCR will be held on site, updated as required throughout the operational life of the site and will be made available to Natural Resources Wales (NRW) upon request.
- 1.2.3 This document has been prepared based upon the requirements outlined in Environment Agency Guidance "H5 SCR guide for applicants v3.0" (April, 2013) and seeks to record the condition of land prior to the issue of the permit application. The ultimate object of this report is to establish baseline conditions at the site to enable future Permit surrender by the Operator.

### **1.3 Site Investigations**

- 1.3.1 The proposed WTS will be partially located within the permit boundary of an existing separate soil treatment activity operated by Robin Jones & Sons Ltd (RJS), which will be scaled back accordingly. No site investigation data specific to the location of the proposed WTS is currently available. An intrusive geotechnical site investigation will be carried out to establish ground

conditions prior to construction of the WTS building. Chemical testing of samples will be taken during the process. This information will be filed with the SCR for future surrender purposes. Activities at the proposed WTS site will be carried out in a building on a sealed, impermeable surface, and the operational procedures on site are expected to minimise the risk of any detrimental impact arising from the proposed operation.

## **2 LAND USE**

### **2.1 Present Site Use**

- 2.1.1 The proposed Waste Transfer Station will operate at Parry's Quarry, at a National Grid Reference of SJ 27544 66301. RJS proposes to operate a non-hazardous landfill which will include a minor component of stable, non-reactive hazardous disposal. The proposed WTS site is situated to the south west of proposed landfill cells and is immediately south of the existing landfill haul road, adjacent to the existing site office. The WTS permit boundary will sit within the installation boundary of the landfill site and will be treated as a directly associated activity. The WTS proposes to temporarily store and transfer the full non-hazardous waste intake for the landfill site, and will transfer stored waste to landfill using a dedicated site vehicle which will not operate on external public roads.

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### **3 CONDITON OF THE LAND AT PERMIT ISSUE**

#### **3.1 Introduction**

- 3.1.1 This (SCR) provides an assessment of the site condition at the time of permit application and is a document designed to be maintained throughout the operational life of the site. Upon surrender of the permit, following cessation of operations, further assessment will be made of the site condition to produce a post-operational SCR. This section provides a brief summary of the site setting.

#### **3.2 Geology**

- 3.2.1 The British Geological Survey geological map viewer indicated that the superficial deposits underlying surrounding the site consist of poorly sorted, glacially derived Devensian Till. These superficial deposits have been removed during the workings of the quarry; however they are still present in the region surrounding the site.
- 3.2.2 The bedrock of the site consists of a downthrown block of the Etruria Marl Formation within a heavily faulted wider area of the Upper Westphalian Coal Measures Strata. The Etruria Marl Formation consists of reddish brown, yellow and grey mottled silty mudstone interbedded with seatearths and hard, fine grained quartzose and feldspathic sandstone. The Upper Westphalian Coal Measures Strata consist of grey to dark grey mudstones, clays and siltstones interbedded with seatearths, sandstones and coal. The Coal Measures Formations are bounded at the upper and lower surfaces by moderate to strong, yellow-brown to grey and white fine to coarse sandstones. The downthrown block is bounded by two primary, subvertical faults with an easterly dip.
- 3.2.3 The depths and extent of these strata have not been established for the purposes of this report.

#### **3.3 Hydrogeology**

##### ***Aquifer characteristics***

- 3.3.1 NRW have classified different types of aquifer from which groundwater can be extracted. The aquifer designations reflect the importance of aquifers in terms of groundwater as a resource (drinking water supply) but also their role in supporting surface water flows and wetland ecosystems.
- 3.3.2 The drift deposits surrounding the site are regarded as unproductive strata by NRW. Isolated drift deposits in parts of the course of Alltami Brook are classified as a Secondary 'A' Aquifer. These aquifers are assigned in cases where they have been identified as being capable of supporting local water supplies rather than on a regional scale. Due to the isolated nature of these drift deposits and their distance from the proposed WTS site, it is considered unlikely that they will be affected by the proposed activity.

- 3.3.3 The bedrock underlying the site is classified as a Secondary 'A' Aquifer. This designation is assigned to permeable layers capable of supporting water supplies at a local rather than regional level, and may form a source of base flow to rivers. The Coal Measures Strata and the Etruria Marl Formation are both classified as Secondary 'A' Aquifers.
- 3.3.4 There are no Groundwater Source Protection Zones or water abstraction licences within 1 km of the site.
- 3.3.5 The site is not located within a Nitrate Vulnerable Zone.

### **3.4 Hydrology**

- 3.4.1 Alltami Brook is located approximately 250 m to the north of the permit boundary for the existing waste facility, and is approximately 450 m from the proposed WTS location at its closest point. Wepre Brook is located 750 m to the north east of the existing permit boundary, and is approximately 1.3 km from the proposed WTS at its closest point. No other watercourses are located within 1 km of the existing permit boundary. The site is situated within the River Dee catchment, approximately 3.5 km from the River Dee.
- 3.4.2 There are 2 bodies of standing water within the existing permit boundary, both of which are pits associated with quarry activities. No other bodies of standing water can be identified within 1 km of the site.

### **3.5 Sensitive Sites**

- 3.5.1 A number of potentially sensitive habitats designated as Sites of Special Scientific Interest (SSSI) and Special Conservation Areas (SAC) collectively known as the Buckley Clay Pits and Commons are present in the area surrounding the site. The closest of these sites is located within the existing permit boundary, approximately 10 m from the proposed WTS. It is identified by NRW as a habitat for Great Crested Newts. Additional sections of the collective Buckley Clay Pits and Commons SAC are located at 525 m to the south, 720 m to the north east and 1.1 km to the west.