BESPOKE PERMIT APPLICATION

Newthorpe Aggregates Ltd

Newthorpe Quarry

Newthorpe

North Yorkshire

NON-TECHNICAL SUMMARY

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SJW Enviro Consulting Ltd

CONTENTS:

1. Introduction

This document provides the non-technical summary for the environmental permit application by Newthorpe Aggregates Ltd for its site at Newthorpe Quarry, Newthorpe, Sherburn In Elmet, North Yorkshire.

The site comprises a small area located within a much larger quarry area all under the ownership of the permit holders. Operations take place in the bottom of the quarry void which is 20metres below the surrounding agricultural land.

The site will be used to treat predominantly construction, demolition and excavation wastes to produce various sized aggregates, soil and sand. All these materials will leave the site as a product as they meet the various criteria to be classed as non-waste.

2. Environmental setting

The site is located Newthorpe Quarry, Newthorpe, Sherburn In Elmet, North Yorkshire served at OS map reference SE 49947 32109. The immediate surrounding areas are almost entirely agricultural land. The site is bounded by arable field to the south, east and west while woodland, a railway line and beyond that further agricultural land lie to the north..

The site is located within a surface water nitrate vulnerable zone. There are no known SSSI's in the vicinity of the site.

Newthorpe Beck flows west to east to the north of the site beyond the railway line.

British Geological Survey (BGS) mapping of the site and surrounding area indicates that Newthorpe Quarry is established in the Cadeby Formation, formerly known as the Lower Magnesian Limestone, which extends across the surrounding area for several kilometres in all directions. There are no recorded deposits of superficial materials above the limestone. BGS mapping indicates that the Cadeby Formation in the area varies in thickness between 30 and 80m and rests unconformably on sandstone, siltstone and mudstone of the underlying Upper Coal Measures. The superficial geology underlying the whole site, comprises of clay and silt of the Hemingbrough Glaciolacuistrine formation. The bedrock geology comprises mudstone of the Roxby formation.

The Cadeby Formation is designated as a Principal Aquifer by the Environment Agency based on the following definition. 'These are layers of rock or drift deposits that have high intergranular and/or fracture permeability - meaning they usually provide a high level of water storage. They may support water supply and/or river base flow on a strategic scale. In most cases, principal aquifers are aquifers previously designated as major aquifer.' At a regional scale the Cadeby Formation provides water for public supply and baseflow to rivers and streams.

The area of the quarry used for the waste treatment plant is entirely surfaced with concrete.

3. Waste acceptance and processing

Pre-acceptance procedures are in place to ensure that only waste that may be accepted under the environmental permit is directed to the site. All waste delivered to the site will be checked by a suitably trained operative to ensure that only permitted waste is accepted. Any loads containing non-permitted waste will be rejected from the site.

There is a weighbridge located close to the site office on the access road into the treatment area. All loads of waste are weighed when arriving on the site and all products weighed when leaving.

The total maximum amount of waste accepted at the site will not exceed 150,000 tonnes per year. The throughput of the site will be limited to a maximum of 2,000 tonnes per day. The maximum amount of waste stored on site at any one time shall not exceed 40,000 tonnes.

If accepted at the site, waste will be unloaded into the designated storage areas adjacent to the treatment plant. The treatment plant will consist of a washer, crusher and screen.

Waste material is fed into the crusher with a loading shovel and then it passes through a screen where plastic and other residual material is removed. The remaining material is then washed mechanically and sorted according to size into saleable products.

A filter cake is created from the material that cannot be turned into a product. This along with the residual material sorted in the screen are the only waste products that leave the site. Ultimately the filter cake will be deposited on site but this is reliant on a landfill permit being obtained.

To reduce traffic flow it is anticipated that contractors will deliver waste material to site for processing and then be re-loaded with product material for use in the construction industry.

4. Environmental protection and control measures

All waste treatment will take place on an impermeable pavement.

The site will be monitored by all staff with daily inspections by the technically competent manager.

The environment management system for the site includes dust management plans and a fire prevention plan to ensure compliance. Site staff will all be made familiar with the terms of these plans and what to do should issues arise.

All waste will be treated on a first in first treated basis to minimise storage times and prevent the build-up of waste on site.

There is a long access road from the B1222 to the site which is fully surfaced. This will help to significantly reduce any material being tracked off site by vehicles. Regular checks of the access road will be undertaken by site staff.

5. Maintenance

The risk of unplanned breakdowns is minimised through the implementation of preventative and active maintenance being carried out. All plant and equipment maintenance is scheduled so that regular repairs can take place. This helps to ensure that plant and equipment are functioning correctly, and potential faults are identified before they result in malfunction.

6. Environmental management system

Newthorpe Aggregates Ltd have an appropriate environmental management system in place and will operate the site in accordance with the system. Newthorpe Aggregates Ltd will have ultimate control over site operations, maintenance, staff competence and training, prevention of accidents, organisation, document management and records.

Regular reviews of the management system will be undertaken and changes made to working practices if necessary.