



Non-Technical Summary

NTH Solutions LLP

NORTH TEES AND HARTLEPOOL

NHS FOUNDATION TRUST

Osmotherley House

Hardwick Road

Stockton-on-Tees

Cleveland

TS19 8PE



North Tees and Hartlepool
NHS Foundation Trust

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1.0 Introduction

NTH Solutions LLP – North Tees and Hartlepool NHS Foundation Trust has instructed Olive Compliance Limited (OCL) to prepare an application for a Bespoke Environmental Permit Application for their site at Osmotherley House, Stockton-on-Tees, TS19 8PE.

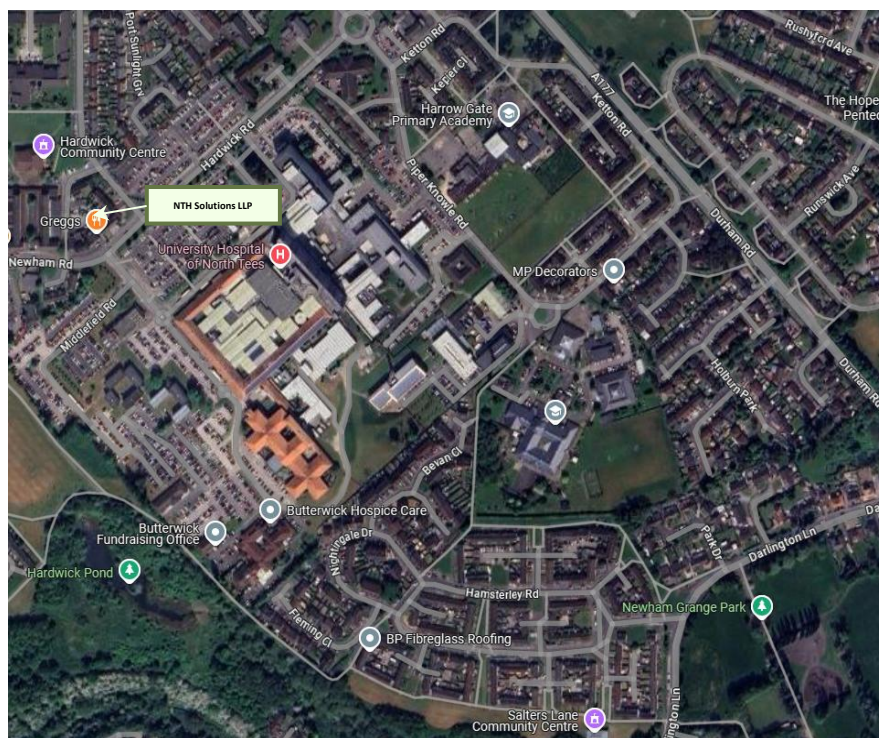
This non-technical summary provides a summary of the regulated facility, an explanation of exactly what is being applied for, and a summary of the key technical standards and control measures that will be implemented at the site as a result of the application.

1.1 The Site

The site is located at National grid reference NZ 42318 21055.

The site is principally bounded by residential and commercial premises as shown below in Image 1.

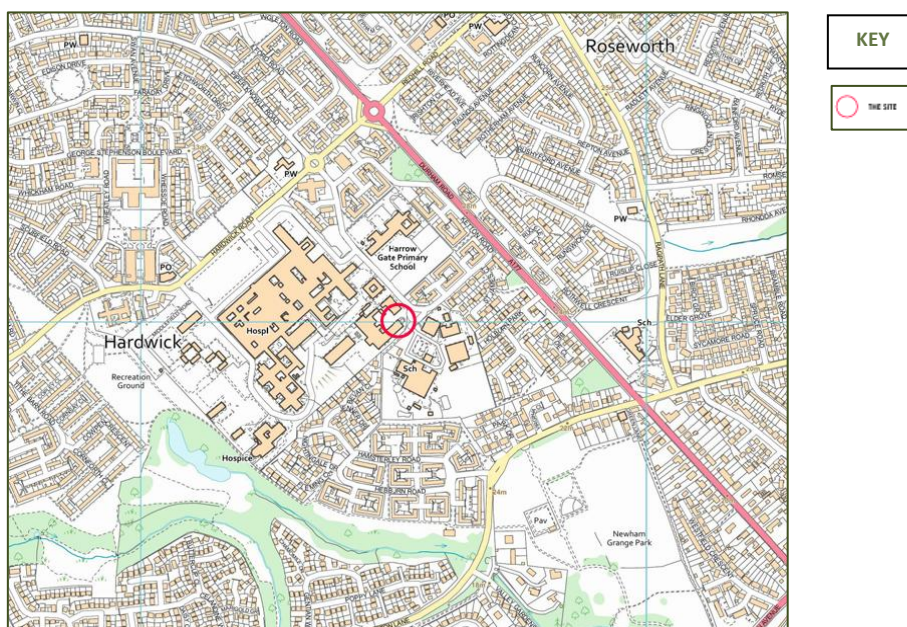
Image 1 – Site Setting



The site is principally bounded as shown below in Table 1.

Table 1

Boundary	Description
North	Residential/Commercial
East	Residential/Commercial
South	Residential/Commercial
West	Residential/Commercial

Image 2 – Site Location

This is a new bespoke permit application that is referenced to the pre-application Ref:

- EPR/MB3000CE/A001

2.0 Proposed activities

NTH Solutions LLP serves the University Hospital of North Tees – North Tees and Hartlepool NHS Foundation Trust (UHNT) who have invested in new technologies, plant and equipment to treat the clinical waste produced on site, with potential of treating clinical waste produced by partner Trusts in the most efficient manner by reducing carbon footprint, energy consumption and costs. The treatment process involves the maceration and microwave sterilisation of wastes suitable for alternative treatment technologies via Bertin 440 Sterilwave systems. The new treatment facility will be housed in the former boiler house located within the hospital grounds.

The former boiler house is located on the southern side of the hospital site and is composed of two distinct sections: a single-storey area built with a concrete frame and a cast-in-situ concrete roof, with a two-storey structure by means of a steel frame. The lower walls of the two-storey section are masonry up to around 3 meters, while the upper sections and roof are clad in metal.

The former boiler house has recently undergone significant internal modifications, to accommodate four Bertin 440 Sterilwave machines. The main section of the building, previously housing the boiler plant and equipment, has been stripped of these original installations. A partial refurbishment has prepared the space for a new role within the hospital's infrastructure. This refurbishment included filling in former service pits, laying a new floor screed, and installing associated drainage channels. These changes are designed to accommodate the new sterilisation units as part of the Hospital Trust's initiative to support an on-site waste sterilisation treatment scheme, for the safe processing and sterilisation of clinical waste.

The process involves the maceration and microwave sterilisation of wastes suitable for alternative treatment technologies via Bertin 440 Sterilwave systems.

Clinical waste produced on site, will be treated by microwave technology to sterilise the clinical waste into a non-hazardous floc (19 12 10). Once treated the waste floc will be stored within the compactor prior to being collected and transferred to an Energy from Waste plant. In addition, there is potential for clinical waste from external healthcare sites to be brought onto site for treatment.

Once the euro carts/bins are emptied they will be washed within the bin wash housed in side the building. Clean euro carts/bins will be returned for circulation within the hospital and/or healthcare premises.

Waste Tonnages

The site intends to accept and treat up to 5000 tonnes of waste per annum.

Description of activities for waste operations

- | | |
|-----|---|
| D9 | Physico-chemical treatment not specified elsewhere which results in final compounds or mixtures which are discarded by means of any operations numbered D1 to D12 |
| D15 | Storage pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection on the site where the waste is produced). |

Microwave treatment in a Sterilwave Unit, shredding and compaction prior to offsite disposal.

- Hazardous waste tonnage (TBC) per day to be treated at the site under a D9 activity.
- Non-hazardous waste tonnage (TBC) per day to be treated at the site under a D9 activity.

EWC Waste Types

The list of EWC waste types proposed for the new permit are as follows:

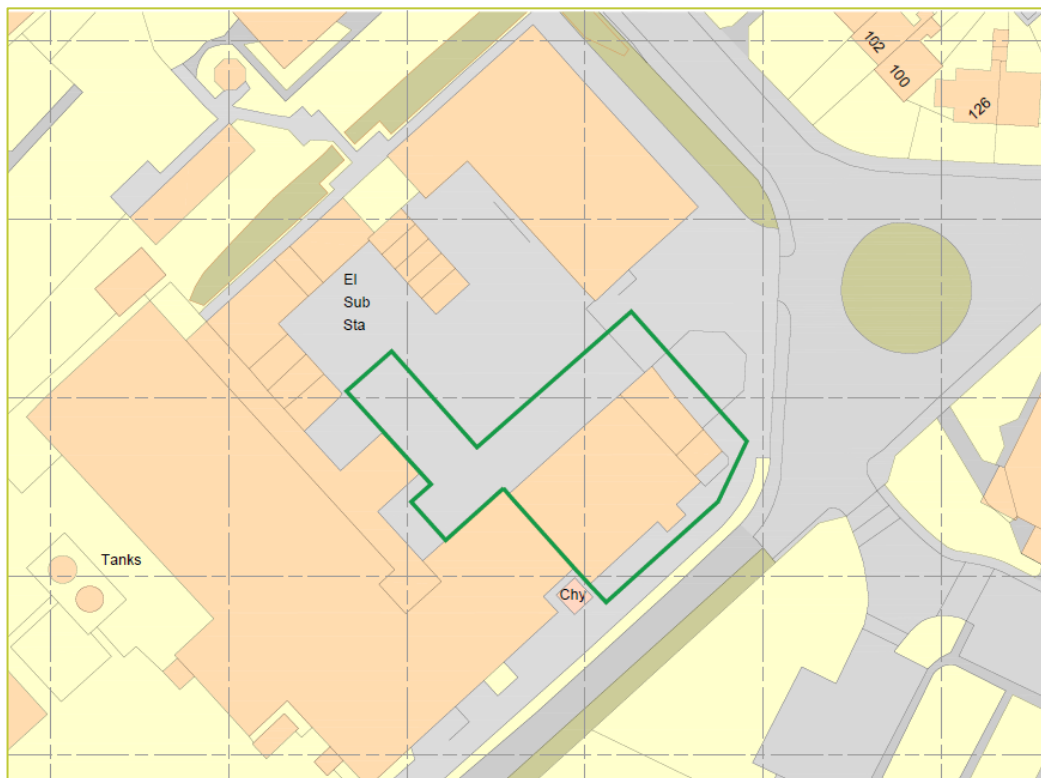
- 18 01 03* - wastes whose collection and disposal is subject to special requirements in order to prevent infection

- 18 01 04 - wastes whose collection and disposal is not subject to special requirements in order to prevent infection (for example dressings, plaster casts, linen, disposable clothing, diapers)
- 18 02 02* - wastes whose collection and disposal is subject to special requirements in order to prevent infection
- 18 02 03 – wastes whose collection and disposal is not subject to special requirements in order to prevent infection

Site Boundary

All wastes shall be treated and stored on an impermeable surface with a sealed drainage system.

Image 3 – Site Permitted Boundary



3.0 Application Contents

In view of the foregoing, the application comprises the following elements:

1. Application forms (Parts A, B2, B4 and F1)
2. Non-Technical Summary (NTS_NTH SOLUTIONS LLP)
3. Management System (EMS_NTH SOLUTIONS LLP)
4. Environmental Risk Assessment (ERA_NTH SOLUTIONS LLP)

5. WAMITAB certification
6. Operator Information
7. Drawings
8. Operating Techniques (OT_NTH SOLUTIONS LLP)
9. Site Condition Report (SCR_NTH SOLUTIONS LLP)
10. Emissions Monitoring Plan (EMP_NTH SOLUTIONS LLP)
11. Odour Management Plan (OMP_NTH SOLUTIONS LLP)
12. Fire prevention Plan (FPP_NTH SOLUTIONS LLP)
13. Pre-application

3.1 Application Forms

Parts A, B2, B4 and F1 of the Environment Agency's application forms have been completed in support of the application and are enclosed as Section 1 of the application.

3.2 Non-Technical Summary

As part of the application this non-technical summary (NTS) is a concise document that provides a description of the application process should also provide an effective outline of all the key points set out in an Environmental Statement.

The Non-Technical Summary has been included in Section 2 of this application.

3.3 Environmental Management System

NTH Solutions LLP currently operate to their own in-house management system and working towards ISO accreditation which ensures that:

- The risks that the activities pose to the environment are identified.
- The measures that are required to minimise the risks are identified.
- The activities are managed in accordance with the management system.
- Performance against the management system is audited at regular intervals; and
- The Environmental Permit is complied with.

A copy of the management system is included as Section 3 with a supporting Operating Techniques Document of the application and a summary of the key technical standards for the management of the treatment facility is included in Section 8 of this non-technical summary.

3.4 Environmental Risk Assessment

An Environmental Risk Assessment (ERA) has been undertaken and submitted with the permit variation application to assess and mitigate risks associated with the proposed changes on the site. There will be no point source emissions to groundwater, surface water or air resulting from the waste activity, and neither will there be any site waste arising or global warming potential.

Therefore only 'Amenity and Accidents' remains applicable for assessment in this instance, and includes the consideration of odour, noise and vibration, fugitive emissions (including dust, mud, litter and pests) and accidents.

The ERA concludes that with the implementation of risk management measures, as described in the ERA, potential hazards from the facility are unlikely to be significant.

The Environmental Risk Assessment is included in Section 4 of this application supported by a habitats assessment.

3.5 Wamitab

Operations at the site will be under the overall control of a technically competent person who holds the relevant Certificate of Technical Competence (COTC) under the Waste Management Industry Training and Advisory Board (WAMITAB) scheme. Evidence of competence is supplied within the application in Section 5.

3.6 Operators Information

Operator's information supplied in Section 6 of this application.

3.7 Drawings

NTH SOLUTIONS LLP-001 SITE LOCATION PLAN

NTH SOLUTIONS LLP-002 PERMITTED SITE BOUNDARY PLAN

NTH SOLUTIONS LLP-003 SITE LAYOUT AND PROCESS PLAN

NTH SOLUTIONS LLP-004 SITE RECEPTOR PLAN

NTH SOLUTIONS LLP-005 SITE DRAINAGE PLAN

3.8 Operating Techniques

An Operating Techniques document (OT) has been produced as part of this application.

The OT is included within Section 8 of this application.

3.9 Site Condition Report

In line with EA guidance:

“It is in your own interest as an operator to produce a site condition report. An alternative approach would be for you to assume that the site is completely uncontaminated, irrespective of its previous history, but that would mean that any contamination by substances used at, produced or released from the installation that is discovered when you applied to surrender your permit would be considered to have resulted from your operation of your installation. You would then potentially be liable for remediation work, and would be unable to surrender your permit until you had completed it satisfactorily “

A Site Condition Report (SCR) has been produced in respect to this application and is included within Section 9 of this application.

3.10 Emissions Monitoring Plan

An Emissions Monitoring Plan has been produced as part of this application.

The EMP is included within Section 10 of this application.

3.11 Odour Management Plan

An Odour Management Plan has been produced as part of this application.

The OMP is included within Section 11 of this application.

3.12 Fire Prevention Plan

A Fire Prevention Plan has been produced as part of this application.

The FPP is included within Section 12 of this application.

3.13 Pre-application

Pre-application advice was requested from the EA.

A copy of this advice is included within Section 13 of this application.

4.0 Key Technical Standards

The key technical standards which will be employed to ensure that the proposed activities do not give rise to a significant environmental impact are summarised below:

- The Environmental Permitting (England and Wales) Regulations 2016.
- Develop a management system: environmental permits, February 2016.
- Control and monitor emissions for your environmental permit, February 2016.
- Risk assessments for your environmental permit, February 2016.
- Sector Guidance Note S5.06: recovery and disposal of hazardous and non-hazardous waste, May 2013 (updated October 2018)
- How to comply with your environmental permit. Additional guidance for clinical waste (EPR 5.07), January 2011.
- Healthcare waste: appropriate measures for permitted facilities Guidance, December 2021

In summary, the rules and operating procedures employed at the site will ensure that:

- All waste is managed in accordance with the Environmental Permit and legal requirements.
- The management and prevention of fires on site will be controlled via the Fire Prevention Procedure.
- The storage and treatment of waste is undertaken on impermeable surfacing with sealed drainage.
- Any storage vessels, tanks or containers used for the storage of any liquid fuel oil or other potentially polluting liquids/materials shall at all times be labelled as to the contents and will be fit for purpose.
- Vehicles and plant will be appropriately maintained to ensure that operation will not give rise to unacceptable noise or vibration levels; and
- The risk of fugitive emissions (dust, noise, odour, pest and litter) is minimised.

Procedures are in place for the regular inspection and maintenance of storage areas and associated infrastructure, including site surfacing, drainage systems and containment measures. Records will be maintained detailing any action taken to repair infrastructure and faults. An Accident Management Plan is maintained and regularly reviewed to assess and minimise environmental risks and hazards of accidents and their consequences.

5.0 Conclusion

The overall conclusion from the studies undertaken in support of the permit variation application is that there is unlikely to be a significant environmental impact upon potentially sensitive receptors as a result of the proposed Environmental Permit application.

NTH Solutions LLP is fully committed to ensuring the highest standards are met and will undertake its activities in a manner consistent with best industrial practices and with the implementation of the company's management system.