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WASTE RESOURCE MANAGEMENT



THE NWH GROUP

Waste Transfer Station, Factory Road

Emissions Management Plan

August 2019

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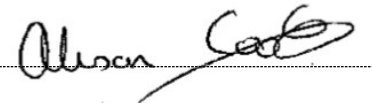
PREPARED BY:

Philip Walton Senior Environmental Scientist
 (Air Quality)



REVIEWED BY:

Alison Cook Associate Director



APPROVED BY:

Malcolm Walton Technical Director
 MCIEH



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1 EMISSIONS MANAGEMENT PLAN

1.1 Introduction

1.1.1 NWH Group proposes to operate a waste transfer station (WTS) at Factory Road, Gateshead. This emissions management plan (EMP) outlines the sources of emissions and measure to control those arising from the WTS.

1.1.2 This EMP is part of the WTS's environmental permit documentation.

1.1.3 The purpose of this EMP is to identify each relevant emission source capable of being generated during the WTS operation. On identification, relevant mitigation measures are made to ensure the emissions are controlled, removed, minimise or mitigated.

1.1.4 The plan is intended to cover the entire site and all emission-related operations. The aim of the EMP is to ensure there are no adverse emission releases during operation of the WTS and to outline the measures to ensure no adverse environmental conditions occur during operation.

1.1.5 The EMP considers day-to-day operations and all foreseeable circumstances (e.g. adverse meteorological conditions) which may exacerbate conditions at the site.

1.1.6 The EMP has been prepared by qualified air quality and permitting professionals in Wardell Armstrong LLP, who are members of professional Institutes. It is the responsibility of the NWH Group and the on-site WTS management team to ensure the WTS is operated in accordance with the EMP.

1.1.7 The EMP includes:

- Consideration and identification of all emissions at the WTS.
- Identification of sensitive receptors.
- Site- and activity-specific mitigation measures.
- Mitigation measures are sourced from the following documentation:
 - Environment Agency – Control and Monitor Emissions for your Environmental Permit
 - Institute of Air Quality Management, 2014. Guidance on the Assessment of Dust from Demolition and Construction.
 - Environment Agency H4 Odour Management.
 - In-house knowledge

1.2 Site Description and Proposals

- 1.2.1 The WTS is located at Factory Road, Blaydon in an industrial estate. The site is bound to the north by a scrap yard, to the east by Factory Road and a metal sorting yard, to the south by industrial premises and to the west by the River Tyne.
- 1.2.2 The site is currently hard standing with an existing building present. The existing building would be retained, and a second building constructed in the north of the site would house the general waste processing area. The site plan is outlined in Plate 1.



Plate 1: WTS Site Plan and Potential Emissions Sources

1.3 Emission Identification

- 1.3.1 All emission releases from the WTS are “emissions not controlled by emission limits”(i.e. fugitive emissions).
- 1.3.2 Dust and odour releases are derived from various point sources across the WTS. Flies, vermin and litter may be generated due to the nature of the working and the material processed.
- 1.3.3 There are no fumes generated at the WTS. Air fumes (for example vehicle exhausts) are controlled by relevant European Union and United Kingdom legislation.

2 POTENTIALLY SENSITIVE RECEPTORS

- 2.1.1 Sensitive receptors in the vicinity of the WTS are outlined in Drawing Number NT14507-001.
- 2.1.2 The area surrounding the WTS is commercial and industrial in nature. A number of low sensitivity receptors are present in close proximity to the WTS. Further afield there is a mix of medium to high sensitivity receptors between 260 to 517m of the WTS. A summary of the sensitive receptors is outlined in Table 1.

Table 1: Sensitive Receptors in Proximity of the WTS		
Receptor	Type of receptor	Approximate distance from facility
Blaydon Communications Ltd	Commercial (Office)	25m
Smiths of Swalwall	Car Sales Premise	14m
Commercial Offices at Goldcrest Way	Commercial (Offices)	260m
Retail Units	Commercial (Retail)	370m
Existing Residential Properties at Shibdon Road	Residential Dwellings	517m

3 EMISSION SOURCES AND MITIGATION

- 3.1.1 The WTS will handle general waste and inert material. These include; general waste, hardcore (brick, concrete, stones), mixed wood and greenery, plasterboard and gypsum product, scrap metal, soils and UPVC.

3.2 Dust

- 3.2.1 Dust emissions may arise from the stockpiling and sorting of inert waste materials. All inert materials would be processed and removed from site within 14 days of arrival.
- 3.2.2 The primary emission release points are during unloading/loading activities, stockpiling in the three sided bays (see Plate 1) and material handling.

3.2.3 A dust management plan (DMP) has been prepared for the WTS. This document outlines in details the various controls and measures to limit dust generation and transport.

3.3 Odour

3.3.1 Odour emissions may arise from the sorting of waste in the proposed northern building in the footprint of the WTS. All waste is processed within 4 days of arrival.

3.3.2 In summary, odour generation is fugitive and may arise from:

- Refuse trucks and unloading.
- Pick excavators and front-loading shovels.
- Conveyor system and trommel.
- Sorting office.
- Stockpiles.
- Loading activities.

3.3.3 An odour management plan (OMP) has been prepared for the WTS. This document details the various controls and measures to limit odour generation and transport.

3.4 Flies and Vermin (Pests)

3.4.1 General waste would be processed at the WTS. By its very nature, these products can be attractive for pests. These are a source of emission, as specified in the EA 'Control of and Monitor Emissions' webpages.

3.4.2 Flies and vermin (rats) have been identified as a potential emission at the WTS. This section outlines the measures which would be taken to limit and outright stop pests emanating from the WTS.

3.4.3 A number of general control measures should be routinely applied to minimise the number and impact of pests on the site:

- Provision and maintenance of plant and equipment to ensure that waste can promptly be compacted and covered. Maintenance of buildings to repair damage where pests can gain entry.
- Additional precautions for the handling of high risk waste streams (i.e. review at weighbridge and option to reject waste).
- Minimise generation of odours that could attract pests.
- Fast track and process wastes which may attract pests.

- Good “housekeeping” across the site. This includes picking up litter, ensuring stockpiles do not overspill and waste is always tipped in designated locations.
- Prompt response to complaints relating to pests – from either staff or sensitive receptors.

3.4.4 Stockpiles of waste will not be left to fester or sit for extended periods. A 4 day processing turnaround would be undertaken at the WTS.

3.4.5 The general mitigation measures outlined above are effective solutions for removing and reducing opportunities for pest infestation. However, as a last resort the use of pesticides can also be undertaken. Any pesticide use would be carried out by an approved specialist contractor and only target specific source infestations rather than site-wide. Other control measures such as electronic fly-killers, sticky strips and light attractants may also be used.

3.4.6 Regular (at least daily) inspections will be undertaken by WTS employees. Standing waste stockpiles will be inspected for flies. Evidence of rats will also be inspected; these include, droppings, gnawed cabling and holes in the walls/floors. Any findings will be outlined in the Environmental Logbook as well as any actions taken to rectify the issue.

3.4.7 All persons working on, or visiting, the site should wash their hands before eating, drinking, or smoking. Food and drink should be kept in closed, airtight containers. Leftovers should be deposited in rat-proof bins.

3.5 Litter

3.5.1 The deposit of waste has the possibility to result in litter emissions. Litter would be managed in accordance with the mitigation measures outlined in this EMP.

3.5.2 Litter emissions would primarily arise from general waste (i.e. cardboard, paper, plastic and polythene). No unscheduled tipping outside of the proposed waste building would be undertaken. All waste will be stored within an enclosed building.

3.5.3 Tipped wastes will be managed and organised using the front-loading shovel and pick excavator to ensure there is no overspill into the courtyard.

3.5.4 Regular (at least daily) inspections will be undertaken by WTS employees. It is recommended that this task is provided to a designated member to ensure the role is carried out regularly. Excessive litter accumulations shall be recorded In the

Environmental Logbook and the action taken. Any windblown litter or accumulations shall be dealt with promptly and picked up.

- 3.5.5 Permanent litter netting shall be installed along the western boundary of the WTS, to ensure no windblown materials enter the waterways. Solid barrier or netting shall be present on all other boundaries.
- 3.5.6 All tipped general waste and loading activities will be carried out under shelter of the waste sorting building.
- 3.5.7 Where feasible stockpile and loaded material shall be compacted (for example using the front-loading shovel) to minimise windblown litter.
- 3.5.8 Litter picking will be carried out as necessary. Litter picking activities will be carried out across the entire WTS boundary.
- 3.5.9 Off-site litter picking will be instigated as necessary, if it becomes apparent that litter has escaped the site.

3.6 Visual Inspections

- 3.6.1 All emissions identified in this plan would be checked regularly by means of a visual inspection. Inspection of adverse circumstances will initiate immediate action to rectify the situation and ensure emissions are controlled and mitigated.

3.7 Complaints

- 3.7.1 In the event that any complaints are received, details of the complaint will be recorded in the Environmental Logbook and potential sources or occurrences on site will be investigated. Records of all complaints and remedial action taken shall be recorded in the Logbook.
- 3.7.2 The results of the complaint investigation and the measures taken to resolve the complaint will be made available to the Regulator upon request.
- 3.7.3 Additional mitigation will be employed as and when necessary to resolve the complaint(s).
- 3.7.4 Any complaints received will be recorded and investigated in accordance with the company's ISO 14001 Environmental Management System (EMS).

3.8 Distribution & Training

- 3.8.1 A physical copy of the EMP must be kept on site at all times and made available to employees. It is also advised that a digital copy is held at the head office. The EMP shall be made available to the Regulator on request.
- 3.8.2 The site manager will ensure each employee and subcontractor at and/or arriving to the site are familiar with the control measures and procedures outlined in this plan and are aware of their individual role in reducing dust emissions. Personal protective equipment shall be provided as necessary for employees and visitors.
- 3.8.3 Upon arrival at the site and/or beginning of employment the employee will be trained and familiarised to carry out the mitigation actions required of their role. The training will make the employee aware of the wider dust management controls active at the site. Suitable training may include a site-specific toolbox talk. Refresher sessions are recommended annually.

3.9 Review and Responsibility

- 3.9.1 The EMP will be reviewed by the site manager annually. New versions of this EMP will be issued as and when necessary with mitigation and/or operational changes outlined. The version history shall be updated each time.
- 3.9.2 It is the responsibility of the operator and the site manager to ensure the EMP is enforced and that all employees are suitably trained. Failure to do so could result in adverse environmental conditions and enforcement by the Environment Agency.

STOKE-ON-TRENT

Sir Henry Doulton House
Forge Lane
Etruria
Stoke-on-Trent
ST1 5BD
Tel: +44 (0)1782 276 700

BIRMINGHAM

Two Devon Way
Longbridge Technology Park
Longbridge
Birmingham
B31 2TS
Tel: +44 (0)121 580 0909

BOLTON

41-50 Futura Park
Aspinall Way
Middlebrook
Bolton
BL6 6SU
Tel: +44 (0)1204 227 227

CARDIFF

Tudor House
16 Cathedral Road
Cardiff
CF11 9LJ
Tel: +44 (0)292 072 9191

CARLISLE

Marconi Road
Burgh Road Industrial Estate
Carlisle
Cumbria
CA2 7NA
Tel: +44 (0)1228 550 575

EDINBURGH

Great Michael House
14 Links Place
Edinburgh
EH6 7EZ
Tel: +44 (0)131 555 3311

GLASGOW

2 West Regent Street
Glasgow
G2 1RW
Tel: +44 (0)141 433 7210

LEEDS

36 Park Row
Leeds
LS1 5JL
Tel: +44 (0)113 831 5533

LONDON

Third Floor
46 Chancery Lane
London
WC2A 1JE
Tel: +44 (0)207 242 3243

MANCHESTER

76 King Street
Manchester
M2 4NH
Tel: +44 (0)161 817 5038

NEWCASTLE UPON TYNE

City Quadrant
11 Waterloo Square
Newcastle upon Tyne
NE1 4DP
Tel: +44 (0)191 232 0943

TRURO

Baldhu House
Wheal Jane Earth Science Park
Baldhu
Truro
TR3 6EH
Tel: +44 (0)187 256 0738

International offices:

ALMATY

29/6 Satpaev Avenue
Regency Hotel
Office Tower
Almaty
Kazakhstan
050040
Tel: +7(727) 334 1310

MOSCOW

21/5 Kuznetskiy Most St.
Moscow
Russia
Tel: +7(495) 626 07 67