Prudhoe Transfer Station
Dust Management Plan

Prudhoe Transfer Station, Low Prudhoe, Northumberland
NE42 6PL

Contents

Revision Control

REVISION	PREPARED BY	DATE	REASON FOR REVISION	APPROVED BY	DATE

00	M Gill	29/09/2023	Document issued.	R Molloy	02/10/2023
01	A Cook (SLR)	20/08/2025	Request from EA		
01	A Cook (SLR)	06//11/2025	Request from EA		

Background

Thompsons of Prudhoe operate Prudhoe Transfer Station, located to the north of the town of Prudhoe. The transfer station covers an area of 1.3 hectares used for temporary storage of materials in transit from other Thompsons work sites.

This Dust Management Plan has been developed to facilitate a permit variation to include the remaining area of the yard owned and operated by Thompsons of Prudhoe. The remaining 0.91 hectares of land will be included within the permit variation to allow for the external storage of Inert materials. The variation also includes an increase of the permitted throughput of the site to 150,000 tonnes per annum.

Under the current permit for Low Prudhoe Transfer Station EAWML64001 (EPR/RP3898ZV), 10 tonnes of cement-bonded asbestos (17 06 05*) are allowed to be stored on site per day up to a maximum of 10 tonnes on site at any one time. The variation will also allow for the storage of fibrous asbestos (17 06 01*) under the same volume restrictions. Asbestos is double bagged or wrapped and stored in a lidded and lockable 40 cubic yard skip.

The permitted operations at the transfer station are in accordance with the current planning permission and environmental permits. A summary of conditions relating to dust as required by the permission and permits is provided at Appendix 1, alongside the control measures in place to satisfy those conditions for ease of reference.

Due to the surrounding industrial nature and land use of the area immediately surrounding the Transfer Station, the impact of dust generating activities at the site is considered to be negligible and not significant on surrounding residential sensitive receptors in accordance with the IAQM guidance, when taking into consideration mitigation measures already in place across the site.

Introduction

The purpose of the DMP is to provide detailed mitigation measures to ensure dust, mud and debris are controlled, removed and mitigated during operations at Prudhoe Transfer Station. The plan is intended to cover the entire site and all dust generating operations.

In a wider site context, the plan is to be considered in parallel with Thompsons of Prudhoe's Environmental Management Procedures and the requirements of both the planning and permitting conditions.

The aims of this DMP are as follows:

- To identify responsibilities for controlling dust arising from operations
- To monitor the existing situation with regards to weather conditions, sources of dust levels around the site
- To minimise the generation of dust by the use of good general management practices
- To plan ahead so that predictable dust generations scenarios that could have an impact are reviewed to minimise dust arising and impact on sensitive receptors in the locality
- The documentation of relevant operational control methods
- To monitor and review the performance of the managerial and operational control measures put into place

1. Dust Generating Activities

1.1 Site Description

The site currently comprises of one waste transfer building storing construction and demolition waste. There are also a number of temporary external storage bays situated on the engineered impermeable surface for the storing of processed stone and hardcore. Periodically inert waste will be crushed to produce aggregate.

The site lies within the town of Prudhoe and is situated north of Prudhoe Town. Access to the site is off the A695 (Princess Way, Prudhoe Bypass East to West). The site is bounded by the main Newcastle-Carlisle railway line to the north, with the SCA Hygiene Unifibres paper plant located immediately to the west. The River Tyne flows in an easterly direction approximately 200m to the north of the site boundary.

The site is a Waste Transfer Station and construction and demolition waste storage facility. The site is also situated directly to the North of Thompsons Head Offices and Wagon Yard.

1.2 Potential Dust Sources

The following dust generating operations have been identified. These are also indicated on Drawing Number LP-02-003:

- Aggregate storage yard- northeastern part of the site
- Waste Transfer Station buildings- eastern part of the site. The processing activities include storing of materials to their recycled product
- Mobile plant and site haulage
- Use of mobile crusher

Following the permit variation, the proposed external storage stockpiles shown on Drawing LP-02-003 will also be likely to generate dust. This will be mitigated in part by the proposed concrete block wall that will be in place separating the different stockpile areas.

There are four external bays each allowing for the storage of a stockpile that is 15m wide, 17m long and 2m tall as shown on drawing LP02 003. The bay walls are 2.5m high leaving a freeboard of 0.5m to give some protection against wind whipping.

Further mitigation measures are detailed as below.

2. Dust Sensitive Properties

The closest dust sensitive properties to the site have been identified as:

- Thompsons Plant Management Workshop, Low Prudhoe
- Quantum Controls, Low Prudhoe
- Unifibres SCA, Low Prudhoe

The site is on an industrial estate with industrial or commercial receptors to the east, south and west. There is open land to the north of the site. The nearest residential receptors are in Prudhoe, approximately 350m to the south. There are also some residential receptors approximately 460m to the north, on the far side of the River Tyne.

Receptors are shown on drawing: V16466-SLR-XX-XX-F-EM-000001.

3. Management

3.1 Site Management

The Operations Manager will exercise, either personally or by delegation to suitably trained and responsible staff, day-to-day control of the site. They will be responsible for the satisfactory working of the whole site and for ensuring full compliance with the DMP and monitoring plan.

3.2 Transfer Station Staff

Staff at all levels will receive the necessary training and instruction in their duties relating to all operations and the potential sources of dust emissions. Particular emphasis will be given to plant and equipment malfunctions and abnormal conditions.

Any member of staff who fails to comply with the provisions of the DMP will be retrained as necessary and may also be subject to disciplinary action.

3.3 Contractors and Visitors

The Operations Manager will ensure that contractors and visitors are aware of the need to comply with the provisions of this plan so far as they are relevant to their activities on site.

4 Control Measures

As waste operations are carried out on site the site will be managed in accordance with the Environment Agency's "Appropriate Measures for Non-Hazardous and Inert Waste" and "Emissions Management Plan for Dust". In deciding what level of control is required the following factors need to be considered. These include:

- Costs and benefits
- The technical characteristics of the operation
- Geographical location
- Local environmental conditions

4.1 Appropriate Measures for Dust

Thompsons of Prudhoe will employ good practice measures for the control of dust, including adequate maintenance of any parts of plant or equipment whose deterioration may give rise to increase in dust.

Thompsons of Prudhoe will employ such dust control techniques necessary to ensure that the dust from site does not give rise to reasonable cause for annoyance, in the view of the regulator. Dust will also be managed to prevent harm to human health, risk to water, air, soil, plants or animals and without adversely affecting the countryside or places of special interest.

4.2 Operational Controls

Waste Transfer Station Storage Buildings

- Storage of potentially dust generating waste is undertaken within enclosed buildings.
- Waste stored in the external bays will include waste of a large particle size which is less likely to produce significant dust.
- Waste stored externally will be stored in purpose-built bays, below the height of the bay wall, bays are located towards the north of the site, away from neighbouring businesses.

Materials Handling

- Vehicles that arrive onsite will be directed to the appropriate tipping area, ensuring that only suitable inert waste is tipped outside and other wastes are unloaded in the building
- Wastes will be tipped in their corresponding stockpiles as per the direction of the onsite operators and tipping heights will be minimised
- All stockpiles will be dampened down using the onsite water bowser when necessary, this will include during very hot/dry weather or when visible emissions of dust are observed. The site has a mains water supply ensuring water is available.
- In the event that tipping is suspended due to high winds, all vehicles will be directed inside the building or to another appropriate site.
- Details will be recorded in the site Diary
- Materials handling across the site is kept to a minimum to avoid unnecessary emissions of dust
- All materials handling is subject to visual inspections in accordance with Section 5.2 Of this DMP.

Operations with the potential to generate dust emissions are assessed to determine whether mitigation such as dampening down with water from the onsite bowser is required

Stockpiles

- Visual inspections of stockpiles are undertaken at regular intervals (minimum daily) and recorded in site environmental log books. Water suppression is available with use of the onsite Tractor/Bowser to prevent fugitive emissions, any water applied to stockpiles is recorded in the Tractor/Bowser Daily log sheet
- With regards to material stored within the Waste Transfer Storage buildings, no material is stored higher than the sides of the storage bays
- Shovel operator will be responsible for ensuring stockpiles are maintained at an appropriate height to comply with this DMP

Site Haul Roads and Public Highway

- The site access road and aggregate storage area is hard surfaced
- Hard surfaced roads and working areas are kept clean and free of mud and debris by the road sweeper which is utilised when required (i.e. whenever dust or debris is observed to be accumulating). Increased use of the sweeper is considered during dry and windy conditions. All sweeper movements are recorded both in the site diary and the tractor/bowser daily log sheet
- Internal haul roads are unmade however visual observations, in accordance with Section 5.2 of this DMP, are undertaken and an onsite water bowser deployed should these roads require to be dampened. The majority of haul roads leading to the storage stockpiles run over hard standing
- All surfacing will be inspected and maintained/repaired as needed to prevent muddy or dusty conditions developing
- A speed limit of 10mph is enforced onsite to minimise the potential for generation of dust. Drivers will be challenged if caught speeding and disciplinary measures enforced
- Wheel cleaning facilities are provided close to the site exit in the form of a combined drive-in wheel bath and portable power wash system to the rear of the main office complex. This equipment is to be utilised as necessary
- The drive-in wheel bath is designed to allow the full washdown of the transport vehicle as required, detailed signage is in place to advise the driver how to approach and drive through the wash. Drivers again will be challenged on the use of the wheel wash
- Visual observations of the public road and adjacent path outside of the site access are undertaken and recorded throughout the day. Further details of visual monitoring are provided at Section 5.2 of this DMP

Materials Processing

- Mobile crushers may be located within the newly located permit area to allow for the processing of generated demolition wastes
- The mobile crushers, aggregate screening and soil screening operations are carried out in accordance with the conditions of the environmental permit
- Inert waste will be loaded into the hopper and is fed into the enclosed process,
- A high-pressure fogging system is incorporated into the belt feed and product conveyor of the crusher

- A staged procedure is implemented at the site for crushing and tipping activities depending on wind speed. Further details are provided at Section 5 of this DMP
- All dust suppression equipment fitted is maintained in working order and used at all times

4.3 Management Controls

Maintenance

Effective control of airborne dust emissions requires the maintenance and proper operation of all plant and equipment, including fixed and mobile suppression equipment.

A programme of planned maintenance is carried out on all plant and equipment in accordance with manufacturer's recommendations to ensure that it operates at optimum efficiency. Stocks of essential spares and consumable items are held at the site or kept readily available for use at short notice.

Any malfunction or breakdown leading to abnormal emissions is dealt with promptly and operations will be modified or suspended as determined by the site manager until normal working can be restored. All such malfunctions and the actions taken will be recorded in the site diary.

Training

Training of all staff is undertaken in the form of toolbox talks which include:

- Awareness of their responsibilities with regards to the environmental permits
- Procedures for the minimising of emissions on startup and during operations
- Actions to take to minimise emissions during abnormal conditions, including notification to the Operations Manager who can then follow the Emergency Procedures provided at Section 6 of this DMP and notify the relevant authorities, if necessary

The Operations Manager maintains a record of the onsite training, all off site training records are held at our Prudhoe Head office and these records are available to the relevant authorities within one working week of a request.

5 Monitoring

5.1 Onsite Weathering Station

As weather conditions can significantly affect dust propagation a staged operating procedure system will be adopted to identify weather conditions when there is an increased or high risk of wind-blown dust. The trigger levels are based on average wind speeds, the levels and average wind speed (mph) indicated are detailed below and will be determined using the on site weather station. A more detailed copy of the Staged site crushing/ screening and tipping closure procedure can be seen in Appendix 2 outlining the actions that will be taken.

Level 0	Average indicated wind speed 0 mph – 10 mph
Level 1	Average indicated wind speed 11 mph – 15 mph
Level 2	Average indicated wind speed 16 mph – 20 mph
Level 3	Average indicated wind speed 21 mph – 25 mph
Level 4	Average indicated wind speed above 26 mph

These trigger levels are communicated to the site operatives throughout the day using site radio/text or verbal instruction. Changes to trigger levels are recorded both on the operator environmental logbooks and the site Diary.

5.2 Visual Monitoring

Activities with the potential to cause dust emissions, as detailed at Section 1.2, will be monitored at the start-up of operations and again depending at what the staged operating level is on the day. This will include a visual assessment of any potential impacts at downwind receptors and of any visible emissions beyond the site boundary.

Monitoring will take place along Dukes Way, adjacent to the site and at Marquis Court at least once a day, to ensure there are no emissions of dust beyond the site boundary. Monitoring points have been selected to assess the potential impact on nearby human receptors and their location is shown on drawing NT16466-002. Where there is a major dust emission (as defined in section 6) this will be reported to the site manager, who will investigate and instigate the appropriate remedial action.

Remedial actions will depend on the nature of the emissions but may include:

- Additional sweeping of site roads
- Additional damping down of stockpiles using the bowser
- Checking and adjusting the operation of the wheel-wash
- Checking and adjusting misters on the crushing plant

Where these measures fail to bring dust under control or where it is necessary to prevent significant emissions of dust, activities will be suspended temporarily until the situation has been resolved.

All observations and findings, including time, location, wind and weather conditions, will be recorded in the site diary and the operator's environmental logbook. Should visible dust be generated, the Operations Manager will act promptly to identify the source(s) of the dust and take the necessary corrective action.

Each event, its cause and the action taken will be recorded in the site diary and the operator environmental logbook. If necessary, to avoid complaints associated with nuisance dust, the Operations Manager will instruct the reduction or suspension of any operation or process causing visible dust emissions across the site boundary towards a sensitive receptor until the emissions can be controlled.

Site personnel will be instructed to inform the Operations Manager whenever visible dust emissions are observed, or appear likely to occur, as a result of any operation or process.

6 Emergency Response Measures

An emergency response procedure is to be followed in the event of major dust emissions.

For the purposes of the emergency response, major dust emissions will be defined as:

- Visible dust crossing the site boundary
- Fugitive dust from buildings
- Persistent fugitive dust when loading or tipping soils, waste or aggregates
- Persistent fugitive dust from mobile plant or haul movements
- Persistent wind-blown dust

Should control measures fail in preventing significant dust emissions, as above, then the following responses will be initiated:

- Relevant plant shall stop work immediately
- A fitter to be called to inspect any malfunctioning plant
- In the event of very windy weather, as detailed in Section 5.2, work shall cease

The Regulator and Pollution Control of Local Authority are to be made aware of the case of abnormal emissions without delay if it is likely to have an effect on the local community.

7 Complaints Procedure

All complaints will be recorded and reported to the Operations Manager, who will investigate the circumstances and ensure that the necessary corrective measures are taken.

A prompt response will be made to the complainant and a record, including copies of all correspondence and telephone notes, will be held in a secure place at the quarry office.

Complaints history will be reviewed on a quarterly basis in line with the procedure provided at Section 8 of this DMP. A copy of the complaints record from is provided at Appendix 3.

8 Review

Quarterly reviews will be undertaken of the dust monitoring results, complaints and any specific actions which may have been implemented as a result of dust emissions.

The continuing effectiveness of the dust management plan will be reviewed every two years in consultation with the Mineral Planning Authority and Environment Agency. The review will take into account dust monitoring records, complaints history and any further sensitive development on neighbouring land, if applicable.

The plan will be amended as necessary, including any changes to the monitoring scheme and control measures which may be agreed.

Review of the plan will also be undertaken in the event of exceedances with additional control measures implemented as required, ensuing that any lessons learned from incidents are addressed as soon as possible.

9 Records

Records of site inspections and complaints, including any remedial action taken, will be held in a secure location within the office at Prudhoe Transfer Station for at least 2 years and will be made available to the relevant authorities to examine. Any historical records held off site will be made available to the relevant authorities for inspection within 1 working week of the request.

Appendices

Appendix 1: Summary of Conditions Relating to Dust and Control Measures Implemented

Permission	Condition	Control
EPQ10/111 Mobile Crushing and Screening Process	1.1 The best available techniques shall be used to prevent or, where that is not practicable, reduce emissions from the installation in relation to any aspect of the operation of the installation, which is not regulated by any other condition of this Permit.	Dust control is achieved by enclosure of the crusher and grader within the walls of the unit and by the application of a fogging water spray to the belt and conveyor.
	2.1 The operator shall keep records of inspections, monitoring and maintenance, including all non-continuous monitoring, inspections and visual assessments. The records shall be: • Kept on site • Kept by the operator for at least 2 years • Made available for the regulator to examine	Maintenance undertaken in accordance with Section 4.4 of the DMP. Visual inspections undertaken in accordance with Section 5.2 of the DMP. Records held on site in accordance with Section 9 of the DMP.
	4.1 In the case of abnormal emissions, the Regulator shall be informed without delay if the emission is likely to have an effect on the local community. 4.2 The Pollution Control or Environmental Health Department in whose area the plant is operating shall be informed without delay if there is an emission that is likely to have an effect on the local community, as well as the Regulator that issued the Permit	Emergency response procedures are detailed within Section 6 of the DMP, which include notification of the Regulator and Pollution Control or Environmental Health Department of the local authority in the event of likely effects on the local community.
	5.1 There shall be no visible airborne dust emissions beyond the site boundary from where the crusher is deployed, from any of the permitted activities, including stockpiling. 5.7 The Operators shall, if necessary, provide additional water suppression such as a bowser or irrigation sprays to minimise emissions from roadways or stockpiles, where vehicle movements to and from the site associated with the crushing and screening operations, give rise to airborne dust emissions. 5.8 Deposits of dust on external surfaces of the plant shall be removed daily using wet methods whenever practical. 5.10 The discharge height of the product from the crusher to the stockpile below shall be kept to a minimum. 5.11 Where dusty materials are stored, stockpiles shall be wetted where necessary to minimise dust emissions. 5.12 Conditioning with water or proprietary conditioning agents shall take place at or before the point of discharge from the conveyor.	Visual monitoring is undertaken in accordance with Section 5.2 of the DMP. Operational controls are provided at Section 4.3 of the DMP.
	6.0 Maintenance	Section 4.4 of the DMP details the Maintenance procedures for the site.
	7.0 Training	Section 4.4 of the DMP details the Training procedures for the site.

Appendix 2- Staged Site Crushing/Tipping Closure Procedure

Level 0	**Average Indicated Wind Speed 0mph – 10mph** Crusher operating as normal, dust suppression system on, operator to carry out minimum of 3 daily inspections, observing and recording any change in wind speed and direction. Normal tipping of aggregates.
Level 1	**Average Indicated Wind Speed 11mph – 15mph** Crusher operating as normal, dust suppression system on, operator to carry out minimum of 5 daily inspections observing and recording any change in wind speed and direction. Normal tipping of aggregates with increased water bowser use on tipping areas and haul roads. Stock piles of crushed aggregates to be watered down
Level 2	**Average Indicated Wind Speed 16mph – 20mph** Crusher operating depending on Wind direction, dust suppression system on, Hourly inspections to be carried out observing and recording any increase in wind speed and direction. Site manager will monitor wind speed and direction from site weather station. Water bowser to suppress feed materials as well as haul roads and tipping areas. No tipping of aggregates over high faces. Loading out of crushed aggregates to carry on, along with continued watering down of the stockpiles.
Level 3	**Average Indicated Wind Speed 21mph – 25mph** Site manager to advise crusher operator if and when crushing can commence. Tipping of aggregates to take place in low level quarantine area with water bowser in attendance. Loading out of crushed aggregates to carry on, along with continued watering down of the stockpiles.
Level 4	**Average Indicated Wind Speed above 25mph** No Crushing to take place, Tipping of aggregates to be suspended in the crushing area. Demolition sites and Third Party customers to be advised that site is closed. Loading out of crushed aggregates to carry on, along with continued watering down of the stockpiles.

Appendix 3- Complaints Record Form

COMPLAINTS LOG

RELATING TO: *(Site Name / Location)*

RECEIVED BY *(Name)*

DATE RECEIVED:

VIA: *(* Delete as Appropriate)*

ORIGINATING FROM: *(Name / Organisation)*

(Address line 1)

(Address line 2)

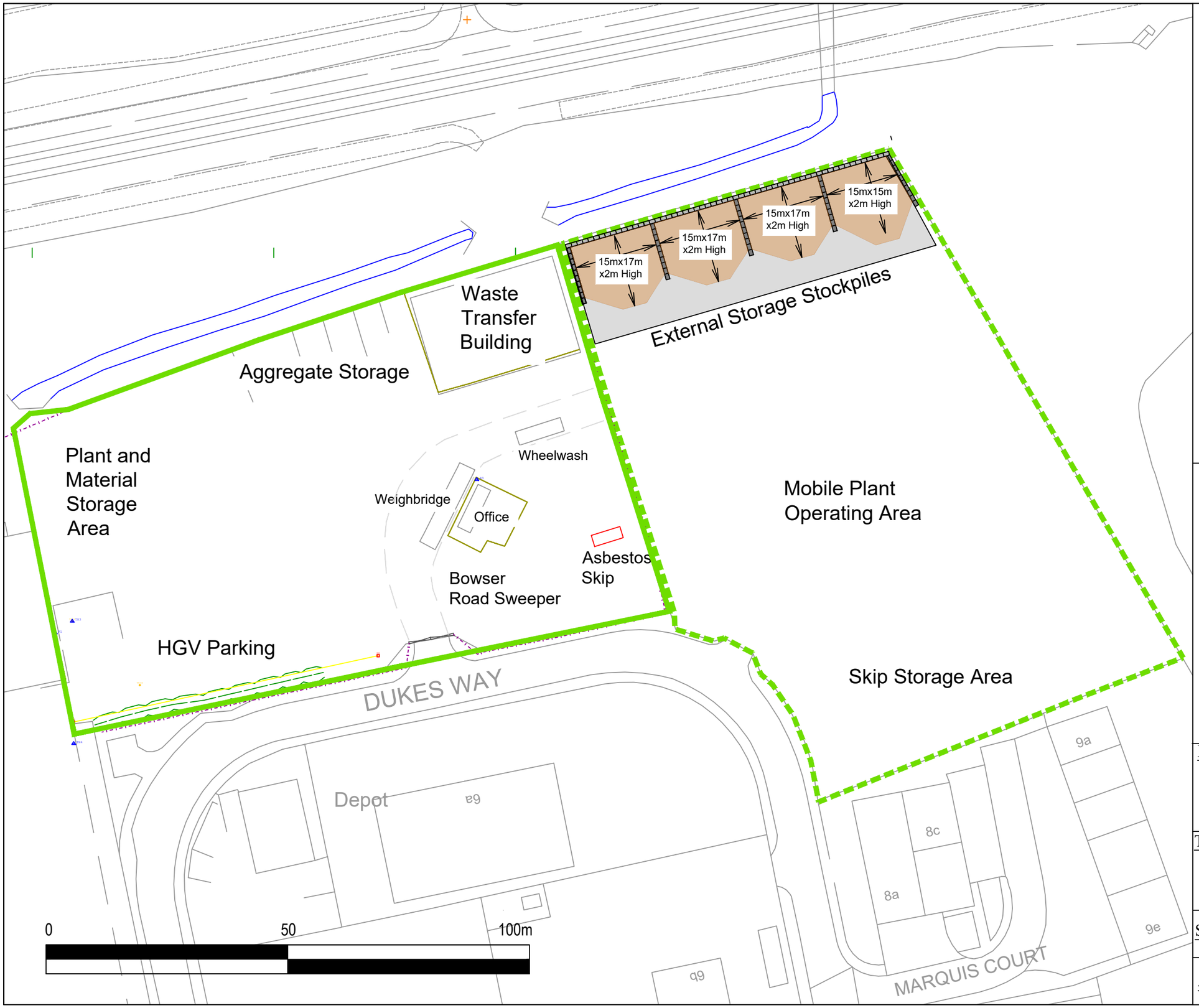
(Address line 3)

(Telephone Number)

COMPLAINT JUSTIFIED (Y/N) *(* Delete as Appropriate)*

SATISATISFACTORILY RESOLVED: (Y/N) *(* Delete as Appropriate)*

PLEASE ATTACH ALL RELATED CORRESPONDENCE TO THIS FORM



Key

- Permit Boundary
- Proposed Permit Extension Area
- Concrete (Lego Block) Bay Wall Dimensions 2.5m (H), 12m (L), 15m (W)
- Concrete Slab
- Stockpile
  Each stockpile will have an indicative volume of 400m3, these will change depending on workload but will not exceed area of concrete hardstand

Rev. B - Stockpile bay wall heights and ancillary equipment (03/11/25)

Rev. A - Stockpile dimensions added (19/8/25)

THOMPSONS OF PRUDHOE

THOMPSONS OF PRUDHOE

Princess Way
Low Prudhoe
Northumberland
NE42 6PL
01661 832422

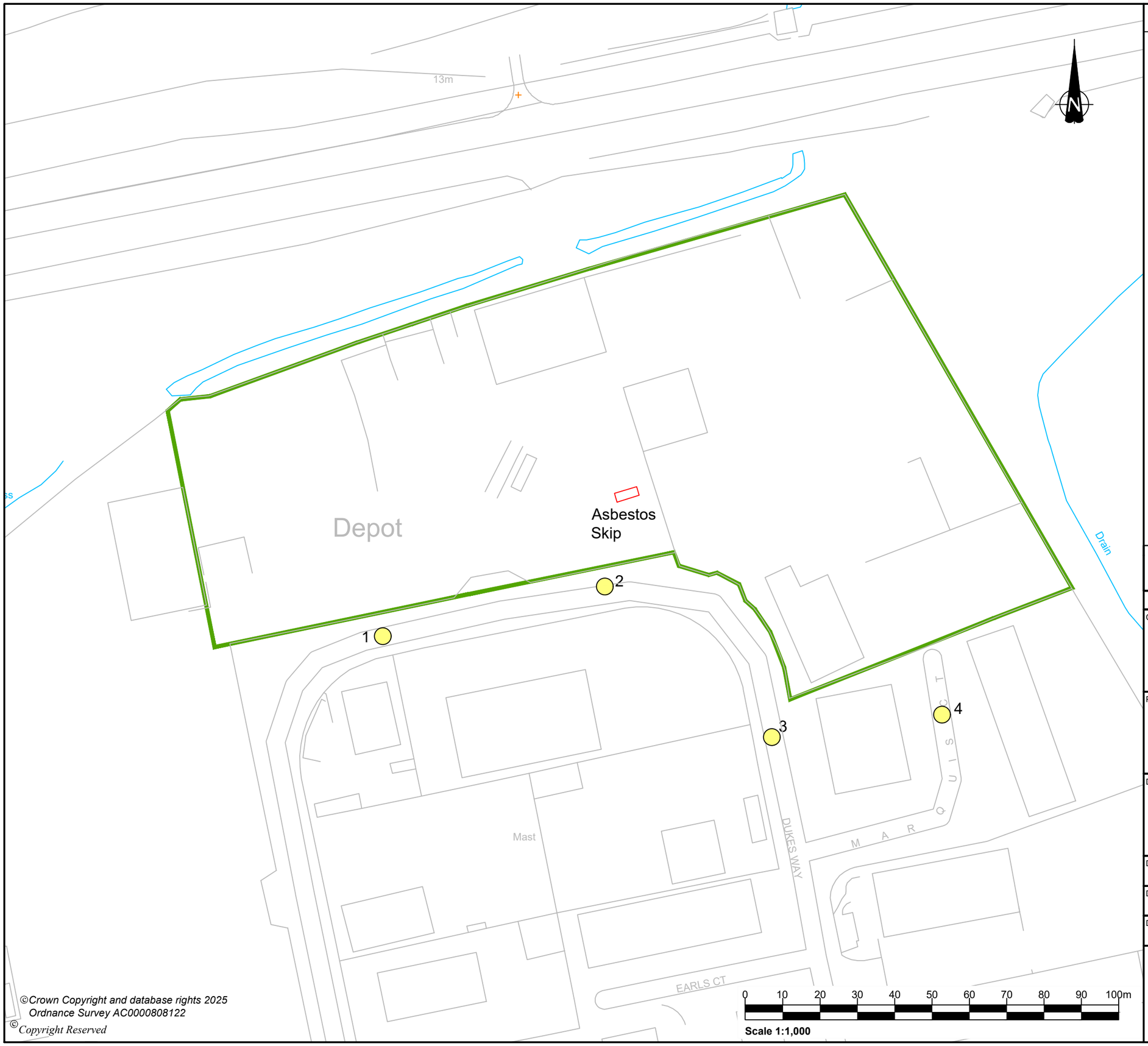
Project;

Low Prudhoe Transfer Station

Title;

Site Layout

Scale	As Shown	Drawn	MG	Date	05/10/23
Job no.	LP-02	Dwg no.	003	Rev.	B



DO NOT SCALE FROM THIS DRAWING

KEY

PERMIT BOUNDARY

DUST MONITORING POINT
FOR WALK ROUND INSPECTIONS

REVISION	DETAILS	DATE	DR'N	CHK'D	APP'D
A	FIRST ISSUE	13-11-25	DR	AC	AC

CLIENT

THOMPSONS OF PRUDHOE
ENVIRONMENTAL TRUST

PROJECT

LOW PRUDHOE TRANSFER STATION

DRAWING TITLE

DUST MONITORING POINTS

DRG No.	REV	SUIT. CODE
NT16466-002	A	

DRG SIZE	SCALE	DATE
A3	1:1000	04/11/25

DRAWN BY	CHECKED BY	APPROVED BY
SJB	AC	AC

wardell armstrong
PART OF SLR

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Notes:

1. Figure is to be read in conjuncture with document "003 Environmental and Habitats Risk Assessment V1.0"

Legend:

- Environmental Permit Boundary
- 1km Offset Boundary
- Local Road Network
- Commercial / Industrial
- Residential
- Open Water / Ditches
- Woodland / Open Ground / Agricultural
- Recreational
- Educational
- Rail Line

Rev	Amendments	Date	By	Chk	Auth
P01	Initial Issue	19/08/25	LB	KR	AC

SLR

www.slrconsulting.com

Client: W & M Thompson (Quarries) Ltd

Project: Low Prudhoe Permit Variation

Figure Title: Sensitive Receptors (1km)

Scale	SLR Project No.
1:10,000 @ A3	414.V16466.00WA1

Designed	Drawn	Checked	Authorised
N/A	LB	KR	AC

Date	Date	Date	Date
N/A	19/08/2025	19/08/2025	19/08/2025

Figure Number: **V16466-SLR-XX-XX-F-EM-000001**

Rev.: **P01**

0 200 400 600 800 1000m

Scale 1:10,000

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