Dust Action Plan

Temple Quarry Site
Liley Lane
Grange Moor
Huddersfield
WF4 4EN

Contract Name:	Temple Quarry
Contract Address:	Liley Lane Grange Moor Huddersfield
Postcode:	WF4 4EN
Author:	Steve Crossland
Checked:	Denis Greene
Issue Date:	18/07/2023
Revision	4

Site Name:	Temple Quarry, Liley Lane. Grange Moor, Huddersfield, WF4 4EN	Ref No:	- Rev 4

TABLE OF CONTENTS

Site Name:	Temple Quarry, Liley Lane. Grange Moor, Huddersfield, WF4 4EN	Ref No:	- Rev 4

Dust Action Plan - Manual Revision Sheet			
Revision Number	Date of Issue	Reason for Revision and Comments	Signature
01	11.01.2021	Mone Brothers Permit Transferred	
02	18.07.2023	Minor updates to 3.2 and 3.3 with addition of 4.4 and 4.5	
03	18.07.2023	Further updates to 3.2, 4.1 and Env Site Check List	
04	19.07.2023	Added Road Sweeper detail to 3.2	

Site Name:	Temple Quarry, Liley Lane. Grange Moor, Huddersfield, WF4 4EN	Ref No:	- Rev 4

1 Introduction

The Dust Action Plan relates to the Waste Recycling undertaken at the Mone Brothers Excavations Limited site at Temple Quarry. The site is controlled by the following Permits: -

- The Environmental Permitting (England & Wales) Regulations 2016, Environmental Permit, Mone Brothers Excavations Limited, Reference No. B0609 issued by Leeds City Council for the operation of crushers and screeners on 20th November 2020.
- The Environmental Permitting (England & Wales) Regulations 2016, Environmental Permit, Mone Brothers Excavations Ltd, Reference No. JB3603CX/T001 issued by the Environment Agency on 11th January 2021.
- Kirklees Council Planning Consent, Ref 2011/62/92313/E dated 15th May 2012.
- Kirklees Council Planning Consent, Ref 98/62/932990/EO dated 20th January 2000.
- Kirklees Council Planning Consent Ref 2019/70/93371/E0 dated 31st May 2023.

In summary the Works at the Temple Quarry Site comprise: -

- Access to the site from B6118 Liley Lane
- Traverse along concrete hard standing road to weighbridge
- Traverse along concrete road into the processing area of the quarry/recycling area and tip inert wastes or deliveries of aggregates and sands or collect primary/secondary aggregates
- Excavate for primary aggregates and transport to processing area
- At the processing area Screen and Crush the materials to produce primary aggregates and secondary aggregate in line with the WRAP Protocol
- Stockpile aggregates, primary aggregates, secondary aggregates, imported aggregates for re-sale and fines
- Load lorries and transport to weighbridge
- Egress from site via B6118 Liley Lane

The site is being operated by Mone Brothers Excavations Limited (MBEL) who are acting as the Producer with Mone Brothers Civil Engineering (MBCEL) undertaking the on-site activities.

2 Project Details

2.1 Location

The site is located 4 miles East of Huddersfield Town Centre and immediately off B6118, Liley Lane. The site is set in a rural location and the working area is surrounded with a bund and a wooded area. There only 2 properties within 200m of the site and both are isolated from the site by a screening bund and wooded areas. The main works is set within the base of an operational quarry.

2.2 Scope of Document

To provide a document which defines the assessment and control of dust at Temple Quarry, taking into account the requirement to control dust emissions across the site perimeter boundary in compliance with Kirklees Council's Conditions of Planning Consent.

2.3 Details of the Project Team

Site Operator	Mone Brothers Excavations Limited
Address:	Albert Road Morley Leeds LS27 8RU
Tel:	0113 252 3636
Contacts:	Michael Coleman – Managing Director Steve Horsley – Operations Manager
E-mail:	Michael.coleman@monebros.co.uk Steve.horsley@monebros.co.uk
Tel:	0113 252 3636 07826 665514 - Michael Coleman 07850 922007 – Steve Horsley
Responsibility for Site Operation	Steve Horsley – Operations Director James Mone – Operations/Site Manager Craig Taffinder – Weighbridge Operator
E-mail:	Steve.horsley@monebros.co.uk James.mone@monebros.co.uk craig.taffinder@monebros.co.uk
Tel:	01132 523636 – Main Offices Landline Number 07850 922007 – Steve Horsley 07757 492831 – James Mone 07528 618322 – Craig Taffinder
Qualifications	WAMITAB for operation management

2.4 Programme

Construction Start Date 9th November 2020

Construction Programme: 20 years

Expected Completion Date: 30th September 2040

3 Site Operation

3.1 A Flow Chart is provided in Figure 1 below which summarises potential dust generation activities:

Stage 1
- **Site Access to Weighbridge**
  - Debris on road
  - Dust from lorries

Stage 2
- **Weighbridge to Stockpiles & Tipping**
  - Debris on Road
  - Dust from Lorries
  - Tipping
  - Stockpiles

Stage 3
- **Excavation of Quarry Overbuden and sources of aggregate**
  - Excavation and loading lorries
  - Transport to Processing Areas or Restoration Area
  - Tipping

Stage 4
- **Screening & Crushing in Processing Areas**
  - Loading Screener & Crushers
  - Operation of Screeners & Crushers
  - Materials dropping from height

Stage 5
- **Stockpile Management and Loading Materials**
  - Transfer materials to correct stockpile
  - Loading trucks
  - Debris on road
  - Dust from lorries

Stage 6
- **Stockpiles to Weighbridge and Egress from the Site**
  - Debris on road
  - Diust from lorries

Figure 1 - Flow Chart of Site Operations with Dust Generation

3.2 Sources of Dust: -

There is minimal risk of dust to off-site receptors due to the configuration of the site and distance from sensitive receptors. The following table provides the sources of dust and control regimes.

Source of Dust	Operating Control Measures	Inspection Regime	Corrective Action Plan
Stockpiles – soil, stone, waste and other materials	Regularly maintained and profiled. Conditioned through spraying with water as required.	Management of tipping areas. Visual inspection.	Condition area with water. Seal/reprofile/relocate stockpiles.
	Stockpiles to be suitably located to prevent windblow.		
Haul Roads	Dust suppression on haul roads.	Visual inspection.	Haul roads to be wetted with water bowser.
	Maintenance of hard-standing haul road and its surface.	Visual Inspection	Undertake necessary repairs/reinstatement of haul road
Collected Dust from Road Sweeper	Road Sweeper water sprays dust prior to sweeping up and collecting as part of its normal operation and then when finished discharges this wetted dust (sludge) to a specific quarantined storage area on site in which it is then covered by blinding (coarse material) and, if required, further dampened. The wetted dust (sludge) is not taken off site.	Management of storage areas. Visual inspection.	Damp and cover immediately with coarse material. Regularly inspected and maintained Road Sweeper.
Weather	During dry and windy periods: - Haul roads to be wetted with water bowser. Haul roads from reception area to be kept clean with road sweeper to load-in/out areas. Water suppression system operational. Stockpiles to be dampened with water.	Visual inspection.	Haul roads to be wetted with water bowser. Haul roads from reception area to be kept clean with road sweeper to load-in/out areas. Water suppression system operational. Stockpiles to be dampened with water.
	During periods of high wind speeds (> 20m/s) movement of soils, overburden and the deposit of waste backfill will be suspended.	Weather warning. Visual inspection.	Suspension of site movement of materials.

Site Name:	Temple Quarry, Liley Lane. Grange Moor, Huddersfield, WF4 4EN	Ref No:	- Rev 4

Source of Dust	Operating Control Measures	Inspection Regime	Corrective Action Plan
Wheel bath	Wheel bath to be used by trucks leaving site.	Visual inspection.	Ensure vehicles drive through before leaving the site. Regularly inspect and maintain wheel bath and clean out silt when necessary.
Debris on Road on to site and to weighbridge	Direct access off the B6118 Liley Lane onto concrete hard standing access road. Road sweeping as required to keep the area clean.	Visual inspection.	As required road sweeping and/or scraping road with excavator/front loading shovel.
	Maintenance of concrete access road.	Visual Inspection	Undertake necessary repairs/reinstatement of access road.
Lorries Tipping	Only materials as detailed in site permit are to be imported and no materials that are substantially dust.	During booking-in of materials and/or at weighbridge. Visual inspection.	Regular visual inspection & reject unsuitable loads.
	Tipping at ground level only, to limit drop height.	Visual inspection.	Maintain working area.
	Maintenance of working area to keep tipping areas clean and tidy.	Visual inspection.	Maintain working area and water suppression as required.
	Maximum traffic speed to be limited to 10mph (up to 25kph) within the quarry.	Management of haul roads. Visual inspection.	Impose a speed limit at all times of 10mph on the site.
Plant/Lorries moving on site	The haul roads are to be kept wet using a water bowser when dust generation is likely.	Visual inspection.	Apply water suppression to the area as required.
	Good housekeeping to maintain the haul routes in a clean and tidy state.	Visual inspection.	Maintenance of haul routes.
	Maximum traffic speed to be limited to 10mph (up to 25 kph) within the quarry.	Management of haul roads. Visual inspection.	Impose a speed limit at all times of 10mph on the site
	Exhaust pipes will not be allowed to discharge in a downward direction.	Management of plant and lorries. Visual inspection.	Exhaust pipes to only discharge horizontally or in an upward direction.
Operation of Crushers	The crushers will be operated with the water suppression system and/or water spray turned on where there is potential for dust.	Visual inspection.	Apply water suppression to the area as required.

Site Name:	Temple Quarry, Liley Lane. Grange Moor, Huddersfield, WF4 4EN	Ref No:	- Rev 4

Source of Dust	Operating Control Measures	Inspection Regime	Corrective Action Plan
	The discharge belt is to be kept low to minimize dust generation from materials dropping from height.	Visual inspection.	Apply water suppression to the stockpile as required. Drop heights to be kept to a minimum.
Operation of Screeners	The screeners will by their operation drop the finer materials down to the lower decks.	Visual inspection	Apply water suppression to the area as required.
	The discharge belt of fines is to be kept low to minimize dust generation from materials dropping from height.	Visual inspection.	Apply water suppression to the stockpile as required. Drop heights to be kept to a minimum.
Loading Lorries	Lorries will be loaded either with a Front-Loading Shovel or 360^0 excavator with minimal drop.	Visual inspection.	Apply water suppression to the stockpile being loaded as required. Drop heights to be kept to a minimum.
Dust from within delivery materials	Sheeting to be used where available/practicable, to be kept in place until tipping and regular inspection.	Visual inspection.	For sheeting to be regular inspected and any damaged sheeting to be replaced/repaired.
Excavation	Materials are excavated from the ground in a timely manner. Materials are placed into stockpiles or dump trucks by excavator bucket with minimal drop height and in a manner to meet the capacity of the crushers/screeners.	Visual inspection.	Water suppression applied to input stockpiles as required.
Loading Crushers/Screeners	Materials are excavated from the feed stockpile in a controlled manner. Materials are placed into hopper by excavator bucket with minimal drop height and in a manner to meet the capacity of the crushers/screeners.	Visual inspection.	Water suppression applied to input stockpiles as required.
Debris on Road from loading area to weighbridge and off-site	Road sweeping to keep the area clean. Lorries to pass through wheel bath/wash.	Visual inspection.	Road sweeping and/or scraping road with excavator/front loading shovel.

Table 1 - Sources of Dust and Control Plan

3.3 Control of Dust: -

The following equipment will be used: -

Equipment	Description of use
Drilling Rigs	Fitted with efficient dust control measures.
Lorries	All vehicles to use sheeting cover when carrying loads into and leaving the site.
Plant/Equipment	Exhausts not to vent in a downward manner.
Road Sweeper	Cleaning debris and dust from tarmac or concrete hard standings within the site and along the site access road – as required on an ad hoc basis.
Water Bowser	Spray water to dampen hard standings, site haul routes and stockpiles.
Wheel Bath	Lorries to pass through the wheel bath to remove mud and debris prior to leaving the site from the processing area.
Crusher c/w with water suppression system	Water suppression points spray water over the crusher, crushers have on board water pumps which can be connected to bowser or pond.
Screener	Water mists points spray water over the screener.
Front Loading Shovels	Loading wagons and movement of materials to stockpiles.
360^0 excavators	Loading wagons and movement of materials to stockpiles.

Table 2 - Control of Dust

4. Monitoring and Corrective Actions

4.1 Monitoring is a constant process undertaken by all personnel as part of their Works, with the Works being continually adjusted to meet the changing environmental conditions. Actual recorded monitoring will be undertaken on site a minimum of 3 times per day as per Appendix 1 & 2 which reports the following: -

- Weather conditions – rainfall, temp, wind
- Site entrance – clean/dirty
- Site processing area – clean/dirty
- Internal haul roads – clean/dirty
- Road sweeper – not required/required & operational
- Mud on roads Y/N
- Wheel Bath – Operational and Clean
- Dust emissions as recorded at locations (ref Fig 2):
  - 1. Site entrance
  - 2 – 5. Processing Area N, E, S & W
  - 6. Processing Area C – Crushers & Screeners

4.2 The locations for visual dust monitoring are as follows: -

Figure 2 - Temple Quarry - Site Layout and Location of Visual Dust Monitoring Points

4.3 Where Corrective Actions are required ie. those which are not part of the daily routine to maintain the site, then these must be put into place immediately and recorded in the Corrective Actions Log in Appendix 3 or the processing works ceased until the Corrective Actions are fully in place and shown to be effective.

4.4 Routine maintenance of all plant and equipment will also identify where these are not operating as usual, and work undertaken to effectively repair any issues/defects with the plant and equipment.

4.5 Any complaint from a third party or by detection during regular operations by site personnel will be investigated by the Site Manager. The Site Manager/Weighbridge Operator will liaise with the Contract Director as necessary who will address immediately with the Managing Director. The complaint will be investigated and closed out at the earliest feasible point. All learning events will be communicated to site operatives via Tool Box Talks, training and/or revisions to this document.

Site Name:	Temple Quarry, Liley Lane. Grange Moor, Huddersfield, WF4 4EN	Ref No:	- Rev 4

Briefing Sheet for Dust Action Plan

Method Statement: Dust Action Plan, Temple Quarry

Talk given by:

Site: Liley Lane, Grange Moor, Huddersfield, WF4 4EN

Position:

Date	Name (print)	Company	Signature

I have been briefed of the contents of the above dust action plan and fully understand all that has been said to me.
I have also had the opportunity to raise any queries relating to the work that is to be carried out.

APPENDIX 1
ENVIRONMENTAL SITE CHECK LIST

Site Name:	Temple Quarry, Liley Lane. Grange Moor, Huddersfield, WF4 4EN	Ref No:	- Rev 4

MONE BROS. EST. 1965

Temple Quarry Environmental Site Check List

Date:	**Day:**
Carried out by:	**Signed:**

Time	07:00						
Weather Conditions							
Site Entrance Condition							
Site Processing Area – Condition							
Internal Haul Routes Condition							
Road sweeper							
Water Bowser							
Mud on Roads							
Wheel Bath							
Dust Emissions							
Wind Direction							
1 Site Entrance							
2 Processing N							
3 Processing E							
4 Processing S							
5 Processing W							
6 Processing C							
Noise Assessment							
Qualitative Noise Assessment							
Odour Assessment							
Qualitative Odour Assessment							
Notes							

Document Re: IMS OP 03 – F006 – Environmental Site Checklist - Rev 1 - July 2020 1

APPENDIX 2

SPECIFIC DUST EMISSION MONITORING LOG FOR SCREENERS AND CRUSHERS

Site Name:	Temple Quarry, Liley Lane. Grange Moor, Huddersfield, WF4 4EN	Ref No:	- Rev 4

MONE BROS. EST. 1965

Temple Quarry
Dust Emission Monitoring Log

Date:	**Day:**

Time	
Crusher/Screener	
Location	
Weather Conditions	
Visible Dust Emissions	
Duration of Observation	
Observers Name & Signature	
Action Taken	

Time	
Crusher/Screener	
Location	
Weather Conditions	
Visible Dust Emissions	
Duration of Observation	
Observers Name & Signature	
Action Taken	

Time	
Crusher/Screener	
Location	
Weather Conditions	
Visible Dust Emissions	
Duration of Observation	
Observers Name & Signature	
Action Taken	

APPENDIX 3
CORRECTIVE ACTION LOG

Site Name:	Temple Quarry, Liley Lane. Grange Moor, Huddersfield, WF4 4EN	Ref No:	- Rev 4

Temple Environmental Corrective Action Log

Date	Time	Corrective Action Raised	Actions Taken to Closeout	Recorded by

Document Ref: IMS OP 03 – F007 – Environmental Corrective Action Log - Rev 1 - July 2020 1