

# AIR QUALITY MANAGEMENT PROCEDURE (AQMP)



SHEQ Management System Procedure

UL-MS-PRO-4036 Iss01

February 2022

| Issue | Page(s) | Revision Description | Prepared | Reviewed | Authorised |
|-------|---------|----------------------|----------|----------|------------|
| D1    | All     | First Issue          | PB       | NM       | SL         |
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## 1 INTRODUCTION

This AQMP outlines the measures to be taken to throughout the Works at and build of UL and associated parts of the business to reduce the dust and emissions created during the phase of development. It has been prepared with reference to the Environment Agency Control of Dust during construction and demolition SPG 2014, Guidance PPG6 – Working at Construction and Demolition Sites, which should be used as a source of further more detailed information.

This plan requires the appointed Sub-Contractors to work to the best Available Technique (BAT) Standards. Control measures should control the emissions of dust and other emissions to air, and reduce human and ecological exposure by:

- Prevention
- Suppression
- Containment
- Monitoring
- Reporting

To meet the requirements of this plan, control measures must be incorporated into the site-specific risk assessments and method statements (RAMS). [FRM-4033 AQMP Risk Assessment Template](#)

To ensure that this document remains relevant, adequate and effective as the works progress the Air Quality Management Plan will be reviewed and updated as necessary:

- following any change in scope of work that has an impact on environmental requirements;
- as instructed by the Project Manager; and at least as a minimum Quarterly;

This plan complies with the requirements of the Code of Construction Practice (CoCP).

## 2 SITE EVALUATION

Evaluation of the potential sources of dust and emissions with the immediate area of the site at the project should be assessed and addressed in the Sub-contractors RAMS.

Works during the project must be assessed as to the impact on the air quality, this is by means of dust from materials but also by vehicle traffic direct delivery and also impact on local traffic.

Phases of the build should be evaluated these include but may have further detail:

- Enabling works
- Demolition
- Earth Works
- Main construction
- Fit out

Potential dust and emissions generating activities during normal working days may include:

- Physical screening of soils and broken concrete;
- Crushing of broken concrete;
- Excavation of material;
- Static and moving Plant/vehicle movements on unmade surfaces
- Stockpiling of soils and broken/crushed concrete
- Handling of soils and broken/crushed concrete.
- Waste removal activities

### **3 SITE LOCATION**

The projects location and were it situated in within local authority areas will have an impact on the requirements for the project to follow. This with other conditions set in the 106-planning agreement is the starting point for BID teams to identify.

Ground conditions including mixed soil type, hazardous materials in the ground are must be identified in pre-construction information from the client or through survey.

Soil reports must be undertaken and all waste will be classified in accordance with Waste Classification and Assessment - Technical Guidance WM3.

New materials required for build will be transported onto site and these areas that they will be drawn to must also be looked into so that the traffic build up along those routes in mitigated, this then will reduce emissions.

#### **Diagram 2 Map View of Demolitions and build**

## 4 LEGISLATIVE FRAMEWORK FOR BEST PRACTICE

The Sub-Contractors must be aware that, in addition to those referred to in this document; there are other relevant pieces of legislation applicable to construction site activities. These are listed below and contained in the United Living Legal Register.

Legislative requirements can be checked via the United Living Technical Library (IHS) Environmental Management section, or stay up to date with changes and new legislation using the Government <http://www.legislation.gov.uk/> web portal.

Below is a summary of legislation and other requirements relevant to air quality that is current at the time of writing this plan:

- Control of Pollution Act 1974
- Control of Pollution (Amendment) Act 1989
- Environmental Protection Act 1990
- Noise and Statutory Nuisance Act 1993
- Clean Air Act 1993
- Clean Neighbourhoods and Environment Act 2005
- Environment Act 1995
- The Hazardous Waste (England & Wales) Regulations 2005
- The Control of Asbestos Regulations 2012
- The Ozone – Depleting Substances Regulations 2015
- The List of Waste (England) Regulations 2005
- Health and Safety at Work Act 1974
- Environmental Permitting Regulations 2007
- Supplementary Planning Guidance (SPG) The Control of Dust and Emissions During Construction & Demolition – Refer to Appendix 1 Environmental Update
- Considerate Constructors Scheme (CCS)
- Waste Operating Framework (OF)
- Climate Change Levy Regulations 2015
- Road Vehicle Construction (and use) Regulation 2015
- Non Road Mobile Machinery practical guide 2017

## 5 SITE ACTIVITIES/IMPACT

The main process and scope of works that impact on the air quality from the project through dust and emissions should be evaluated and recorded on the [FRM-4033 AQMP Risk Assessment Template](#)

This detail is technical and the project team should use a specialist contractor or SHEQ to assist them in recording and evaluating the detail.

## **6 MITIGATION MEASURES**

### **6.1 Site Planning**

Levels of emissions set by the local authority will be set and the UL project team must ensure that they meet this target.

The project AQMP RA template set in [FRM-4033 AQMP Risk Assessment Template](#) should be used to assess requirements with the air management and mitigation.

In order to comply with these levels and thresholds an indigent monitoring system provided by contracted monitoring company using the preferred technical equipment to monitor airborne particle reader (MCERT certified).

This information will be monitored by and either be feed into the UK data map or be stand alone for client records, monitoring intervals and record and communicate alerts, should also be set up with the monitoring contractor.

### **6.2 Compliance**

In order to comply with the NRMM standards, London construction sites are required to register on-line at <http://nrmm.london/> and keep inventories of what NRMM is being used and equipment emission limits are on site. Machinery should also be regularly maintained and service logs are required for site inspections that are made available to local authority officers as required. All subcontractors will be required to meet these standards and ensure that plant used meets phase III B and phase IV approval, plates should be clearly visible and an example can be found in Non Road Mobile Machinery practical guide 2017

### **6.3 Accountability for Projects**

Adhere to “GLA Supplementary Planning Guidance (SPG) - The Control of Dust and Emissions During Construction and Demolition” where applicable and consider the following:

- Review the development’s planning conditions to check whether NRMM requirements are present;
- Ensure all plant is procured in accordance with the outlined requirements;
- Register the site on <http://nrmm.london/>;
- Compile a list of all plant present on site;
- Ensure the register is up-to-date and available for review by the Local Authority;
- If there any questions, please contact the SHE Manager/Advisor assigned to the project.
- Report any alerts as detailed in section 10 of this document must be recorded and reported on to local Air Quality Officer.

## 6.4 Community Liaison

- The United Living Team should provide a 24 hour helpline which is publicised during the works, and included on any information sheets letter dropped to nearby residents in advance of works taking place. Letter drops are utilised to keep the local communities updated on works.
- All air quality complaints received will be recorded, investigated and corrective actions implemented and feedback given to the complainant. Where the complaint is received directly, it will be logged with the Database integral to the company (Eco-online system).

## 7 RISK ASSESSMENT AND METHOD STATEMENT (RAMS)

[FRM-4033 AQMP Risk Assessment Template](#) must be completed for the activities highlighted in initial scope works and impact on the Air Quality.

## 8 DUST AND EMISSIONS CONTROL MEASURES

United Living will ensure that all on-site contractors follow Best Practicable Means (BPM) at all times to minimise dust and emissions. [GUI-4801 Construction- Dust Guidance](#)

For all sites with areas of open ground that are close to sensitive receptors, United Living and its Sub-contractors will follow best practice to prevent dust and other pollutant emissions from being carried outside the boundary.

Project leads must ensure best practice is applied throughout project programme, including Haulage routes, vehicle management, stock piling of aggregates, and all cutting or grinding tasks.

The project lead must also ensure that procedures to contain accident are in place with competent resource.

### 8.1 Hazardous and Contaminated Materials

Under the Control of Substances Hazardous to Health (COSHH) Regulations, United Living and its Sub-contractors will ensure that they take into account risks to the workforce from exposure to any harmful substances generated by work activities. Construction sites are often associated with activities that emit Volatile Organic Compounds (VOCs), such as use of paints, adhesives, bitumen products and concrete and timber treatments. Emphasis will be placed on preventing or reducing emissions at source and where this is not possible personal protective equipment (PPE) may be appropriate and will be risk assessed.

### 8.2 Specific Site Activities

Other activities, specific to some demolition and construction sites, also have the potential to generate dust without proper control. The BPM for each activity must be agreed in the [PRO-4003 RAMs Challenge Procedure](#)

## 9 SITE MONITORING PROTOCOLS

If best practicable means are followed correctly, then formation of dust and harmful emissions from the sites should be minimised as much as possible.

However, continuous site monitoring will still be an important way of helping United Living to manage dust and PM10 emissions from construction and demolition. The location of the site could impact on the local area to the extent where air quality is worsened.

Monitoring of air pollution from all demolition and construction sites will be undertaken. This will vary from visual assessments for low risk sites to the installation of real time automatic monitors for PM10 for high risk activities. It may be appropriate to determine the baseline situation before construction begins. The local planning authority (LPA) will provide advice on the appropriate air quality monitoring procedure and timescale - the requirements of which will be determined on a case by case basis.

Dependant on the location and size of the project the number and type of equipment used for real time air quality monitoring will differ.

UL will need assistance from competent monitoring companies this may be specified by the client if not then the project lead must ensure that sufficient funds are made to employ this resource.

## 10 SITE ACTION LEVELS

A site action limit will be set based on the risk assessment and background PM10 level and the LPA will agree this in advance.

Most Council have enforced a site action level of 125 mg/m<sup>3</sup>, as a 15 minute average for the works and unless specified this will be UL base target standard value.

Where the site action level is being significantly breached, United Living will stop work whilst ensuring that best practice measures are in place before restarting. It is noted that the Environment and Public Protection Service may use breaches of site action levels as a basis for making a site visit and will use all powers at their disposal to prevent statutory nuisance.

If any alerts are recorded by monitors, UL will inform and teams are to complete report

**Table 1** identifies action account holders for projects.

| Position        | Accountable                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Signed | Print Name | Date |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------|------|
| Project manager | <p>Is accountable to ensure that the AQMP is developed and maintained.</p> <p>Is to ensure all on the project understand the GLA NRMM and actions required.</p> <p>Ensures all relevant people on site understand the GLA air quality threshold.</p> <p>Ensuring that all sub-contractors use the approved plant for works as per NRMM guidelines 2017.</p> <p>Ensure that there is a protocol for reporting any complaints or alerts with air quality.</p> |        |            |      |
| Site Management | <p>Ensures all relevant people on site understand the GLA air quality threshold.</p> <p>Ensure they check all plant on arrival that it is compliant with the NRMM standards (including plant registered on web site) and the approval plate is in line with NRMM Guidance 2017</p> <p>Ensure that they understand the protocol for reporting any complaints or alerts with air quality.</p>                                                                 |        |            |      |

|                |                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| Sub-Contractor | <p>To ensure all on the relevant people understand the GLA NRMM and actions required.</p> <p>Ensures all relevant people on site understand the GLA air quality threshold.</p> <p>Ensuring that all equipment and plant used is to the approved plant for works as per NRMM guidelines 2017.</p> <p>Ensure that they report and understand United Living protocol for reporting any complaints or alerts with air quality.</p> |  |  |  |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|