



CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN

CTM Management Ltd

New Aldi Store, Cables Way, Prescot

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Rev 1

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CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN (CEMP)

Proposed Aldi Foodstore Development
Cables Way, Prescott
Knowsley Metropolitan Borough Council

Prepared by: CTM Management Ltd

1. INTRODUCTION

This Construction Environmental Management Plan (CEMP) has been prepared by CTM Management Ltd to provide an outline of the environmental management measures to be adopted during the construction phase of the proposed new Aldi Foodstore development at Cables Way, Prescott.

The purpose of this CEMP is to identify the main construction phase controls required to manage traffic, dust, noise, vibration, ecology, invasive species, pollution prevention, pest control, waste management and general site operations.

This document is intended as an outline CEMP for Local Planning Authority review and comment. It will be reviewed and updated as necessary following further ground investigation information, remediation design, piling design, contractor appointments and any comments received from Knowsley Metropolitan Borough Council.

There is no demolition proposed as part of this CEMP.

2. PROJECT DESCRIPTION

The proposed works comprise the construction of a new Aldi Foodstore and associated external works.

The anticipated construction activities include:

- Site set up and welfare installation.
- Vegetation and tree clearance in accordance with approved ecological and arboricultural requirements.
- Ecological supervision and protection measures.
- Ground investigation and remediation works, subject to further reports and strategy.
- Earthworks and site preparation.
- Piling works, if required, subject to final design and ground conditions.
- Construction of the new Aldi Foodstore.
- Drainage, utility and service installations.
- Service yard, car parking, access road, hard landscaping and external works.
- Final surfacing, landscaping and completion works.

3. HOURS OF WORKING

The proposed construction working hours are:

Monday to Friday: 08:00 to 18:00

Saturday: 08:00 to 13:00

Sunday and Bank Holidays: No working

No works shall be undertaken outside these hours unless otherwise agreed in advance with the Local Planning Authority.

Any unavoidable out-of-hours working, emergency works, statutory utility works or abnormal delivery requirements shall be notified and agreed with the Local Planning Authority where reasonably practicable.

4. SITE MANAGEMENT AND RESPONSIBILITIES

The CTM Site Manager shall be responsible for the day-to-day implementation of this CEMP.

The Site Manager shall:

- Brief contractors on the requirements of this CEMP.
- Maintain site records.
- Monitor dust, noise, traffic, waste and pollution controls.
- Coordinate ecological and arboricultural requirements.
- Maintain a complaints log.
- Report any incidents to senior management and relevant parties.
- Review and update the CEMP as required.

All contractors and visitors shall receive a site induction before commencing work. The induction shall include relevant environmental controls, traffic arrangements, emergency procedures, ecological restrictions and pollution prevention measures.

5. SITE SET UP, STORAGE AND COMPOUND ARRANGEMENTS

The site compound, welfare facilities, storage areas and contractor parking shall be located within the site boundary where reasonably practicable.

Storage areas shall be positioned to avoid unnecessary disturbance to retained habitats, trees, Prescot Brook, neighbouring properties, public areas and sensitive receptors.

The following controls shall apply:

- Materials shall be stored in designated areas.
- No storage shall take place within tree Root Protection Areas unless agreed.
- No storage shall take place within the Prescot Brook 5m exclusion zone.
- Fuels, oils and chemicals shall be stored in suitable bunded areas.
- Loading and unloading shall take place within the site boundary.
- Site cabins and plant shall be positioned to reduce noise, visual and environmental impact where practicable.
- Housekeeping standards shall be maintained to reduce dust, litter, pest attraction and pollution risk.

6. CONSTRUCTION TRAFFIC MANAGEMENT

Construction traffic shall enter and leave the site using designated access points and agreed construction routes.

The following controls shall be implemented:

- Delivery vehicles shall be managed by the Site Manager or appointed contractor. If so required, a designated gate person shall be present.

- Deliveries shall be planned to avoid peak periods where reasonably practicable.
- Delivery vehicles shall be loaded and unloaded within the site boundary.
- Banksmen shall be used where required.
- Construction vehicles shall not park on surrounding residential roads.
- Contractor parking shall be managed within designated areas where practicable.
- On-site turning shall be provided where practicable to reduce reversing onto the public highway.
- Vehicle engines shall be switched off when not in use.
- Site speed limits shall be imposed.
- Public highways shall be monitored for mud, debris and spoil.
- Road sweeping shall be provided where required.
- Wheel cleaning shall be undertaken where required to prevent mud leaving site.
- All haulage vehicles carrying loose materials shall be sheeted before leaving site.

Suppliers and subcontractors shall be briefed on the traffic management requirements before attending site.

7. DUST AND AIR QUALITY MANAGEMENT

Dust control measures shall be implemented during site clearance, earthworks, remediation, construction, vehicle movements and material handling.

The following measures shall be used where appropriate:

- Water suppression during dry or dusty operations.
- Damping down exposed surfaces and haul routes.
- Sheeting of vehicles carrying loose materials.
- Covering or dampening down stockpiles where required.
- Minimising drop heights when loading materials.
- Avoiding unnecessary double handling of materials.
- Cutting, grinding and sawing equipment to use water suppression or local extraction where practicable.
- Regular inspection of site boundaries and roads.
- Road sweeping where required.
- Vehicle speed controls.
- No burning of waste or materials on site.
- Engines to be switched off when idle.
- Dust-generating activities to be reviewed during dry or windy weather.

If dust complaints are received, the Site Manager shall investigate, record the complaint and implement additional mitigation where necessary.

8. NOISE AND VIBRATION MANAGEMENT

Construction works shall be planned and managed to minimise noise and vibration impacts on neighbouring receptors.

The following controls shall apply:

- Use of modern, well-maintained plant.
- Use of silenced or acoustic plant where practicable.
- Plant to be switched off when not in use.

- No unnecessary revving of engines.
- No radios or amplified music that could cause nuisance.
- Noisy operations to be planned within normal working hours.
- Simultaneous noisy operations to be avoided where practicable.
- Good practice shall be adopted in accordance with BS 5228 principles.
- Any piling works shall be subject to final piling methodology and, where required, additional noise and vibration controls.
- Vibration monitoring may be used during higher-risk activities where required.

The final piling system is to be confirmed following further ground investigation and design development. The selected system shall seek to minimise noise and vibration impacts where reasonably practicable.

9. TEMPORARY POWER GENERATION AND PUMPING PLANT

The site shall seek to use mains temporary electrical supply where reasonably practicable.

Where temporary generators or pumping plant are required, the following controls shall apply:

- Mains power shall be used in preference to generators where available.
- Battery-backed or hybrid systems shall be considered where practicable.
- Generators shall not operate overnight unless unavoidable or agreed.
- Any generator required overnight shall be a modern silenced unit.
- Temporary plant shall be located away from sensitive receptors where practicable.
- Plant shall be maintained in good working order.
- Drip trays or plant nappies shall be used where required.
- Pumps shall be suitably located and protected to prevent pollution risk.
- Any overnight pumping requirement shall be reviewed and agreed before use.

10. ECOLOGY AND ARBORICULTURAL PROTECTION

All works shall be carried out in accordance with the approved Ecological Appraisal and any relevant arboricultural information.

Before site clearance begins, the Site Manager shall ensure that relevant ecological requirements are briefed to site operatives.

The following controls shall apply:

- Ecological toolbox talks shall be undertaken before vegetation clearance.
- Tree protection fencing shall be installed where required.
- Root Protection Areas shall be protected.
- Retained habitats shall be protected from unnecessary disturbance.
- Vegetation clearance shall be undertaken outside bird nesting season where practicable.
- If clearance is required during bird nesting season, a suitably qualified ecologist shall undertake checks before clearance.
- If active nests are found, works shall stop in the affected area until the ecologist confirms it is acceptable to proceed.
- Any protected species discovered during works shall trigger a stop-work procedure and ecological advice shall be obtained.

11. SOFT FELLING OF TN13 SYCAMORES AND BAT RAMS

The Ecological Appraisal identifies trees at TN13 as having low bat roost potential.

Soft felling of sycamores at TN13 shall occur under ecological supervision.

The following Reasonable Avoidance Measures shall be adopted:

- A suitably qualified ecologist shall inspect relevant trees before felling.
- Contractors shall be briefed on the potential presence of bats.
- Felling shall be undertaken carefully and in sections where required.
- Felled sections with potential roost features shall be carefully lowered where practicable.
- If bats are discovered, works shall stop immediately and ecological advice shall be sought.
- Works shall not recommence in the affected area until agreed by the ecologist.

12. HEDGEHOG AND AMPHIBIAN REASONABLE AVOIDANCE MEASURES

Pre-commencement checks and Reasonable Avoidance Measures shall be implemented for hedgehog and amphibians.

The following controls shall apply:

- Site operatives shall be briefed through toolbox talks.
- Vegetation clearance shall be undertaken carefully and progressively.
- Long vegetation shall be reduced in stages where practicable.
- Clearance shall be directed towards retained habitat where possible.
- Log piles, debris and potential refuges shall be checked before removal.
- Excavations shall be covered overnight where practicable or provided with escape ramps.
- Open excavations shall be checked daily.
- Stored pipes shall be capped or checked before use.
- Any hedgehog, amphibian or other protected/notable species found shall be moved only by a competent person or ecologist where appropriate.
- If there is uncertainty, works shall stop and ecological advice shall be obtained.

13. SENSITIVE CONSTRUCTION LIGHTING

Temporary construction lighting shall be controlled to avoid unnecessary light spill onto retained and proposed habitats.

The following controls shall apply:

- Temporary lighting shall only be used where required for safe working.
- Lighting shall be directed towards the work area only.
- Lighting shall be angled downwards where practicable.
- Light spill towards retained trees, vegetation, Prescott Brook and ecological corridors shall be avoided.
- Lighting shall be switched off when not required.
- Out-of-hours lighting shall be avoided unless required for safety or security.
- Where lighting is required at dawn, dusk or during autumn/winter periods, it shall be directed away from sensitive habitats.

14. PRESCOT BROOK AND WATER PROTECTION

Prescot Brook is a sensitive receptor and shall be protected during construction.

A minimum 5m exclusion zone to Prescot Brook shall be retained during construction unless otherwise agreed with the Local Planning Authority or project ecologist.

The following controls shall apply within and adjacent to the exclusion zone:

- No storage of materials.
- No fuel storage.
- No refuelling.
- No concrete washout.
- No spoil stockpiling.
- No discharge of dirty water.
- No uncontrolled runoff into the brook.
- No unnecessary tracking of plant.
- Silt protection measures to be installed where required.
- Spill kits to be available on site.
- Drainage and runoff pathways to be monitored.
- Additional inspections following heavy rainfall.
- Any pollution incident shall be reported and managed immediately.

15. INVASIVE SPECIES MANAGEMENT

The Ecological Appraisal identifies invasive species on site, including Japanese knotweed, Himalayan balsam, rhododendron and bamboo.

No works shall disturb known invasive species areas unless appropriate control measures are in place.

The following controls shall apply:

- Known invasive species areas shall be identified before works commence.
- Locations shall be marked or fenced where required.
- Contractors shall be briefed on invasive species risks.
- A watching brief shall be maintained during relevant works.
- Biosecurity controls shall be implemented.
- Footwear, tools and machinery shall be cleaned where required to prevent spread.
- Japanese knotweed shall be managed in accordance with current best practice.
- Himalayan balsam shall be controlled before seed setting where practicable.
- Rhododendron shall be managed to prevent spread.
- Bamboo shall be managed carefully due to its invasive nature.
- Arisings containing controlled invasive species shall be treated as controlled waste and removed to an appropriately licensed facility where required.
- Waste transfer documentation shall be retained.
- A verification report for Japanese knotweed remediation shall be provided where required by the Local Planning Authority.

At the time of this draft, the detailed invasive species eradication/remediation scheme is to be confirmed. This CEMP shall be updated once the specialist methodology and site-specific treatment details are available.

16. PEST CONTROL

Good housekeeping shall be maintained to reduce the risk of pest activity during construction.

The following measures shall apply:

- Food waste shall be placed in sealed bins.
- Waste shall be removed regularly.
- Skips shall be managed to avoid attracting pests.
- Standing water and unnecessary debris shall be avoided.
- Welfare areas shall be kept clean.
- The Site Manager shall monitor for evidence of pest activity.
- If pest activity is identified, a specialist pest control contractor shall be appointed.
- Pest control measures shall be humane, safe and suitable for a construction site environment.
- Records of pest control visits or actions shall be retained on site.

17. POLLUTION PREVENTION

The following general pollution prevention measures shall be implemented:

- Fuel and oil storage shall be bunded.
- Refuelling shall take place in designated areas where practicable.
- Spill kits shall be available and maintained.
- Drip trays or plant nappies shall be used where appropriate.
- Concrete washout shall only take place in designated controlled areas.
- No contaminated water shall be discharged to surface water drains or watercourses.
- Existing drainage shall be protected.
- Silt control measures shall be used where required.
- Plant shall be maintained to reduce leaks.
- Emergency spill procedures shall be briefed to site staff.

Any pollution incident shall be recorded and escalated immediately.

18. REMEDIATION AND GROUND CONDITIONS

A remediation strategy is currently being developed and is pending further ground investigation information and/or reports.

Until the final remediation strategy is approved, the following outline controls shall apply:

- Ground works shall be undertaken in accordance with available ground investigation information.
- Suspected contamination shall be reported immediately.
- Unexpected contamination shall trigger a stop-work procedure in the affected area.
- Contaminated materials shall be segregated and managed appropriately.
- Dust and runoff from exposed ground shall be controlled.
- Materials shall be tested, classified and disposed of in accordance with relevant requirements.
- Verification records shall be retained where required.
- The CEMP shall be updated once the final remediation strategy is available.

19. SITE WASTE MANAGEMENT

Waste shall be managed in accordance with the waste hierarchy:

1. Reduce.
2. Reuse.
3. Recycle.
4. Recover.
5. Dispose.

The anticipated construction waste streams may include:

- Vegetation and green waste.
- Excavated soils and made ground.
- Invasive species waste, where present.
- Packaging waste.
- Timber.
- Metals.
- Plastics.
- Concrete, hardcore and inert materials.
- General construction waste.
- Welfare waste.

The following controls shall apply:

- Waste shall be segregated at source where practicable.
- Skips shall be clearly identified where required.
- Reuse of suitable site-won material shall be considered where technically and environmentally appropriate.
- Excavated material shall not be reused unless suitable and approved.
- Waste shall only be removed by licensed waste carriers.
- Waste transfer notes shall be retained.
- Hazardous waste shall be managed separately.
- Invasive species waste shall be managed in accordance with specialist requirements.
- Waste shall be stored securely to prevent windblown litter, dust and pest attraction.
- Disposal shall be treated as the last resort.

20. COMMUNITY LIAISON AND COMPLAINTS

A nominated Site Manager shall be the principal point of contact during construction.

Contact details shall be displayed at the site entrance or welfare area.

The following procedure shall apply:

- Complaints shall be recorded in the site complaints log.
- The Site Manager shall investigate the issue.
- Corrective action shall be implemented where required.
- The complainant shall be updated where appropriate.

- Repeated complaints shall trigger a management review.
- Records shall be made available to the Local Planning Authority upon request.

21. MONITORING AND REVIEW

The Site Manager shall monitor compliance with this CEMP throughout the works.

Regular inspections shall include:

- Site access and traffic controls.
- Road cleanliness.
- Dust management.
- Noise and vibration controls.
- Ecology protection measures.
- Prescott Brook exclusion zone.
- Invasive species controls.
- Fuel and chemical storage.
- Waste storage and segregation.
- Pest control.
- Housekeeping.

This CEMP shall be reviewed and updated as necessary following:

- Local Planning Authority comments.
- Further ground investigation information.
- Final remediation strategy.
- Final piling methodology.
- Further ecological advice.
- Appointment of specialist contractors.
- Significant changes to construction methodology.

22. RESPONSE TO KNOWSLEY ENVIRONMENTAL HEALTH COMMENTS

This section has been added in response to Knowsley Council's request for further information in respect of Condition 12 - Construction Environmental Management Plan.

The following responses address the points raised by Environmental Health in relation to site layout, noise control, piling, vibration monitoring and dust control measures.

22.1 Site Plan Showing Welfare Offices and Storage Facilities

A site plan will be appended to this CEMP identifying the proposed indicative locations of:

- Site welfare offices and cabins.
- Contractor parking areas, where practicable.
- Material storage areas.

The exact position of welfare and storage facilities may be adjusted as the construction works progress, but they shall remain within the site boundary and shall be positioned to minimise impacts upon nearby dwellings, businesses, retained habitats, trees, Prescott Brook and other sensitive receptors.

No storage of materials, fuels, chemicals, waste or plant shall take place within the Prescott Brook 5m exclusion zone.

22.2 Siting of Noisy Plant

Noisy plant shall be positioned away from noise-sensitive receptors where reasonably practicable.

Where noisy plant cannot be located away from sensitive receptors, practical mitigation measures shall be considered, including:

- Use of existing site features or temporary barriers to provide screening.
- Locating plant behind site cabins, hoarding, stored materials or other physical barriers where safe and practicable.
- Orientating plant away from residential or commercial receptors.
- Switching plant off when not in use.

Static plant powered by internal combustion engines shall be sited away from dwellings, offices and other sensitive receptors where reasonably practicable.

22.3 Loading and Unloading of Materials and Plant

Care shall be taken during loading and unloading operations to minimise unnecessary noise.

The following controls shall apply:

- Loading and unloading shall take place within the site boundary.
- Drop heights shall be kept to a minimum.
- Materials shall not be dropped from height.
- Deliveries shall be managed by the Site Manager and/or appointed contractor.
- Banksman shall be used where required.
- Delivery vehicles shall be switched off when not in use.
- No unnecessary revving of engines shall be permitted.

22.4 Reversing Alarms

Vehicles used regularly on site, including forklift trucks, telehandlers, dumpers, JCBs and similar plant, shall be fitted with white noise / broadband reversing alarms where practicable.

Where plant is brought to site by subcontractors, the requirement for appropriate reversing alarms shall be communicated before works commence.

Where broadband alarms are not available on a specific item of plant, the Site Manager shall assess whether alternative controls are required, including banksman control, restricted reversing areas or revised vehicle movement routes.

22.5 Piling Type

The final piling system has not yet been confirmed and remains subject to final ground investigation information, structural design and specialist piling contractor input.

At this stage, CFA piling is considered the most likely piling solution.

CFA piling is generally considered a lower-vibration piling method when compared with driven piling systems and is therefore likely to be suitable for minimising vibration impacts to nearby residents, businesses and other sensitive receptors.

The final piling methodology shall be confirmed before piling works commence and shall be reviewed against the requirements of this CEMP.

22.6 Piling Date, Duration and Positioning

The exact piling date, duration and pile positions are to be confirmed following final design and appointment of the specialist piling contractor.

Once confirmed, the following information shall be made available to the Local Planning Authority if required:

- Proposed piling commencement date.
- Anticipated piling duration.
- Piling working hours.
- Piling layout / pile location plan.
- Type of piling rig.
- Proposed piling sequence.
- Noise and vibration control measures.
- Vibration monitoring proposals.

Piling works shall be undertaken during the approved construction working hours unless otherwise agreed with the Local Planning Authority.

22.7 Vibration Monitoring During Piling

Vibration monitoring shall be implemented during piling works where required.

The proposed approach shall include the use of suitably placed triaxial vibration monitors around the piling work areas and/or near sensitive receptors, as appropriate.

The vibration monitoring arrangement shall be confirmed following final piling design and specialist contractor input.

Monitoring positions shall be selected having regard to:

- Location of nearest sensitive receptors.
- Piling sequence.
- Ground conditions.
- Existing structures and services.
- Site boundary constraints.
- Access and security of monitoring equipment.

Monitoring records shall be retained and made available for review where required.

Should vibration levels exceed agreed trigger levels, works shall stop or be modified and the piling contractor / Site Manager shall review the working method before recommencing.

22.8 Permanent Water Supply

A suitable water supply shall be made available on site for construction dust suppression and general site management purposes.

Where a permanent mains water supply is available, this shall be used.

Where permanent mains water is not yet available during early site works, an alternative temporary water supply shall be provided, such as a water bowser, temporary tank or other suitable supply. Checks for local hydrant use shall also be investigated and used if necessary.

The Site Manager shall ensure that water is available for dust suppression during dust-generating activities.

22.9 Water Sprays During Dust-Generating Activities

Water sprays shall be available on site and shall be used proactively during dust-generating activities where required.

This shall include, where applicable:

- Earthworks.
- Remediation works.
- Movement of dry soils or granular materials.
- Cutting, grinding or sawing operations.
- Loading and unloading of dusty materials.
- Movement across haul routes during dry weather.
- Stockpile management.

Dust-generating works shall be monitored by the Site Manager, and additional damping down shall be implemented during dry or windy conditions.

22.10 Hard Surfaced Routes

Regularly used routes across the site shall be hard surfaced where reasonably practicable so that they can be kept clean by regular brushing and water spraying if necessary.

Where permanent construction surfaces are not yet available, temporary stone haul routes, compacted hardstanding or other suitable temporary surfacing shall be used where practicable.

The intention shall be to establish stone access routes, haul roads and car park formation areas as early as practicable within the programme to reduce mud, dust and track-out.

22.11 Wheel Cleaning and Road Cleaning

Effective wheel cleaning arrangements shall be implemented where required to prevent mud being tracked out of the site.

The proposed measures shall include:

- Visual checks of vehicles before leaving site.
- Use of jet wash / pressure washer facilities where required.
- Hardstanding or stone access routes where practicable.
- Regular inspection of the site entrance.
- Regular inspection of adjacent public highway areas.
- Manual cleaning of localised deposits where safe to do so.
- Vacuum road sweeper attendance where required.

Road cleaning with a vacuum sweeper shall be used where necessary, but its use shall be managed and kept to the minimum reasonably required.

22.12 Stockpile Management

All stockpiles of potentially dusty material shall be located away from the boundary with existing dwellings, businesses and other sensitive receptors where reasonably practicable.

The following controls shall be applied:

- Stockpiles shall be kept to the minimum practicable height.
- Stockpiles shall be located within the site boundary.
- Stockpiles shall be damped down during dry weather where required.
- Stockpiles shall be sheeted or enclosed where necessary.
- Stockpiles shall not be placed within the Prescot Brook 5m exclusion zone.
- Long-term stockpiles shall be reviewed and managed to reduce dust generation.
- Stockpiles shall be inspected during dry and windy weather.

22.13 Static Plant Powered by Internal Combustion Engines

Static plant powered by internal combustion engines shall be located away from dwellings, offices and other sensitive receptors where reasonably practicable.

Where static plant is required, the following controls shall apply:

- Use of mains electric supply where available.
- Use of silenced equipment where practicable.
- Use of battery-backed or hybrid equipment where practicable.
- Plant to be switched off when not required.
- Plant to be maintained in good working order.
- Plant to be positioned to reduce noise and air quality impact.
- Overnight operation to be avoided unless essential or otherwise agreed.

22.14 Covered Wagon Loads

All wagon loads entering and leaving the site carrying loose, dusty or potentially windblown materials shall be covered.

This shall include, where applicable:

- Excavated soils.
- Made ground.
- Stone.
- Sand.
- Hardcore.
- Waste materials.
- Other loose construction materials.

Vehicles shall not leave site overloaded and shall be checked before exiting where required.

22.15 Summary Statement

The above measures shall be incorporated into the CEMP and implemented during the construction phase.

The measures have been provided to address Knowsley Council Environmental Health comments in respect of noise and dust control and to assist with the discharge of Condition 12.

The CEMP shall remain a live document and shall be updated if further detail becomes available, including the final piling methodology, vibration monitoring plan, remediation strategy and finalised site layout arrangements.

SITE PLAN DETAILS AND PROPOSED LAYOUT:

