CEMEX Noise Management Plan – Kings Cross Concrete Plant, Islington

Noise Management Plan Template (in accordance with EA Horizontal Guidance Document 3)

Noise Receptors

Receptor	Receptor reference	Distance to installation boundary/sources	Background noise level at each receptor		Specific noise level at each receptor when installation is operating	
Type, Extent, Size			Day time	Night time	Day time	Night time
Residential	R001	0 metres east	See appended environmental noise report		See appended environmental noise report	
Residential			Although not relevant to the concrete plant, please note that there is a mainline railway at the rear of the plant which is a significant noise source to residents			

(H3 footnote – "Other local noise sources include mainline trains, which run every 4 minutes, and the site is under a main flight path")

Noise Sources

Identify sources of noise and/or vibration	**Source reference**	**Describe the nature of the noise or vibration**	**Contribution to overall emission**
List each source considered to be insignificant – by process or activity if divided in this way. Mobile sources should also be identified with their areas of use		**Include hours of operation for non-continuous, infrequent or seasonal activities. Note any distinctive characteristics e.g. clatter, whine, hiss, screech, hums, bans, clicks, thumps or tonal elements**	**This relates to the relative risk associated with each source in terms of impact at sensitive receptors. Categorise each as high or medium or low?**
Deliveries of aggregates and cement	S001	Vehicle engines and travel over site roads. *During normal operating hours*	Medium
Tipping of aggregates into ground storage bins	S002	Revving of the vehicle engines to raise the bodies, rushing noise as aggregates cascade over the metal grid into the ground hoppers. 20mm gravel also gives rise to a loud noise as the last part of the load rushes down the vehicle body. *During normal operating hours*	Sand – Medium Aggregates - High
Aggregate conveyor	S003	Slight squeaking noise from a worn roller on the conveyor carrying aggregates from the ground hoppers into the plant. *During normal operating hours*	Low
Unloading of cement	S004	Discharge of cement into silos. *During normal operating hours*	New tankers – Low Other tankers - Medium
Silo high level alarms	S005	Klaxons for high-level alarms activated during silo filling. *During normal operating hours*	Medium
Queuing lorries on site	S006	Engine noise from mixer vehicles queuing on the site	High

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		waiting to be loaded. *During normal operating hours*	
Reversing vehicles on site	S007	Noise from reversing bleepers. *During normal operating hours*	Medium
Loading bay	S008	Aggregates entering mixer vehicles during loading. *During normal operating hours*	Low
Wash out area	S009	Engine noise and material movement when JCB digs out vehicle wash out containers *Approx. 1 hour every 2 weeks*	Medium
Housekeeping equipment	S010	Scraping noise from shovelling aggregates into wheelbarrows during housekeeping activities. Squeaky noise from old wheelbarrows. *During normal operating hours*	Medium
Compressor	S011	Humming noise from compressor on site	Low

(H3 footnote – "Normal operating hours are Mondays to Fridays 7.00 to18.30 and Saturdays 7.00 to 11.00")

Please note that the degree of noise experienced at receptors will be subject to factors where the operator may have influence or are circumstances which the operator will have no control over e.g. proximity from source to receptor, potentially insufficient screening and may be exacerbated by meteorological conditions, wind direction and atmospheric absorption.

Demonstration of BAT

Source reference	Are abatement and actions taken to prevent or minimise emissions BAT?	Actions to be taken to meet BAT and timescales	Implementation timeframe
	Demonstrate that arrangements are BAT for the installation (see H3 Guidance)	**Identify proposals for improvement or issues that need to be addressed to meet BAT, with time scales for implementation**	
S001	1. In line with local authority and complainant recommendations deliveries and the EA H3 noise guidance section 3.3.3.3 (restricting operational hours) to the site have now been restricted to after 8.30 in the mornings Mondays to Saturdays. 2. Saturday deliveries have now been minimised and are only arranged when necessary. 3. Vehicles are regularly maintained which minimises faults which could create noise or air pollution. (Cemex Operational Guidance Doc. Ref 5-10/3.2-3)	1. CEMEX will investigate procurement and transport policies to identify what further, if any, improvements (including options for impact deadening) can be made to minimise noise from transport vehicles in association with health and safety legislation and other requirements.	31st December 2007
S002	1. As 1 above 2. 20mm gravel stock is now tightly controlled by written procedures to avoid bins becoming near empty and the necessity for early morning deliveries. (Cemex Operational Guidance Doc. Ref 5.26.1.a, available on request) 3. All delivery lorry drivers have received refresher instruction regarding the non-revving on	1. In line with H3 guidance (Appendix 5 sheet 7) CEMEX shall install impact deadening material, trialling the use of recycled conveyor belts or other suitable material, to line the aggregate bay hoppers. These will be replaced on a scheduled quarterly basis or sooner if interim visual inspections deem replacement necessary.	31 October 2006

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	Demonstrate that arrangements are BAT for the installation (see H3 Guidance)	**Identify proposals for improvement or issues that need to be addressed to meet BAT, with time scales for implementation**	
	engines during tipping and that drivers must ensure that they pull away from the tipping area slowly to avoid banging tailgates on the hoppers and that they must not sound their horns on site when not absolutely necessary. (Cemex Operational Guidance Doc. Ref 5.18 and 5.26/3.11) 4. In accordance with Appendix 5 of EA H3 (sheet 3) 2 allocated vehicles with lagged bodies for aggregates deliveries to the site have been made available (approx. 40% of loads). (Cemex Operational Guidance Doc. Ref 5-10/3.2-3 and 5.13/3.6)		
S003	Aggregate conveyors are subject to regular and ongoing defects reporting and maintenance. (Cemex Operational Guidance Doc. Ref's 5.16 and 5.23/ 3.16)	CEMEX shall replace worn roller identified.	31st October 2006
S004	Deliveries to the site have been restricted to after 8.30 in the mornings Mondays to Saturdays. Saturday deliveries have been minimised and are only arranged when necessary. All tanker drivers have been informed that they must not rev vehicle engines during unloading.		

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	Demonstrate that arrangements are BAT for the installation (see H3 Guidance)	**Identify proposals for improvement or issues that need to be addressed to meet BAT, with time scales for implementation**	
	(Cemex Operational Guidance Doc. Ref's 4.01/5.26/3.11)		
S005	Audible alarms required for PPC permit to avoid overfilling of silos however supervised deliveries, which are in place, will assist in minimising overfilling.	CEMEX will investigate whether options exist for minimising the noise arising from the alarms.	Mar 2007
S006	Ready-mix vehicle drivers have received refresher instruction regarding the need to ensure engines are not left running whilst queuing on site unless absolutely necessary, i.e. when they do not contain wet concrete which may set inside the vehicle body. (Cemex Operational Guidance Doc. Ref 2.05)	See general improvements	
S007	Reversing bleepers are only activated during potentially hazardous reversing operations on site and will be kept to minimum wherever possible. (Cemex Operational Guidance Doc. Ref 5-26/4.01)	Investigate, in association with Health and Safety and Logistics functions, feasibility of using white noise reversing bleepers to majority of vehicles using the site.	28th Feb 07
S008	Loading area is enclosed on three sides and is regularly inspected by site staff (Cemex Operational Guidance Doc. Ref 5-16/3.09)		
S009	Length of time taken to clear wash out containers is minimised as much as possible and only carried out after 8.30 in the morning.		

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	Demonstrate that arrangements are BAT for the installation (see H3 Guidance)	**Identify proposals for improvement or issues that need to be addressed to meet BAT, with time scales for implementation**	
	(Cemex Operational Guidance Doc. Ref 5-26/4.01)		
S010	Rubber/plastic shovels and new wheelbarrows have been purchased and are now used on site for housekeeping activities. (Cemex Operational Guidance Doc. Ref 5-16/3.09)		
S011	The compressor is located as far away as practical from residential areas and shielded by surrounding plant. (Cemex Operational Guidance Doc. Ref 5-26/4.01)		
General short to medium term noise improvements	1. Repair ready-mix queuing bay, where compromised with suitable material. 2. Install new site signage to include: (name, out of hours contact details and noise requirements for drivers and visitors) 3. Training – implement tool box talks on noise management and aggregate handling 4. Routine maintenance of plant, procedures will consider the recommendations in 3.3.3.1 of EA H3 noise guidance. 5. The site will consider the recommendations of 3.3.3.2 of EA H3 noise guidance relating to good operational practices.		1. 31st Jan 07 2. 31st Nov 06 3. 31st Dec 06 4. 31st Oct 06

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General long term noise improvements		1. In accordance with Appendix 5 of EA H3 (sheet 3) acoustic site barrier to residential boundaries. 2. If practical and economic, install acoustic barrier	1. 30th June 07 2. 30th June 08
Environmental Management System improvements		Implement environmental management system to ISO 14001 standard with a view to expeditious formal accreditation thereafter.	30th June 2007