MICHAEL COOPER M.ARB. Dip. P.R.A.
ARBORICULTURAL CONSULTANT

32 Parkland Close
Rossington
Doncaster
South Yorkshire
DN11 0BH
Tel No: [redacted]
Email:

Tree Surveys
Mortgage Tree Surveys
Planning Applications
Planning Appeals
Public Enquiries
Expert Legal Witness

Our Ref MC

3RD February 2009

Dear Peter,

ARBORICULTURAL SURVEY, LESLIE ROAD, KENDRAY, BARNSLEY.

I refer to your recent instruction to carry out an Arboricultural survey at the above site. The following points are now outlined for your attention.

1 The trees on this site, in general terms, are a poor batch. This is due to a combination of the vandalism element in conjunction with the normal decay process plus damage sustained to their rooting systems. I believe this has been cause by the site clearance works which has led to many roots being severed and compacted.

2 My own view is that the entire site should be cleared of trees with new ones of a significant size being planted to provide a new treescape. Any trees not removed prior to the commencement of the development will in my opinion die a slow lingering death over the next 5-10 years. This will ultimately leave the future house owners/landlords facing a significant expense to remove trees that have been built around probably leaving them in a confined space.

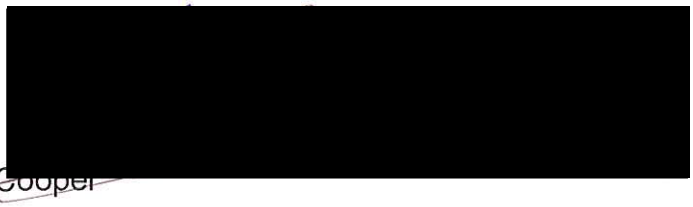
3 On the aspect of tree retention all development on site should comply with the requirements *of* ***British Standard Institute Specification 5837 Trees in relation to construction; 2005.***

4 Any new tree planting should comply with ***British Standards 4043:1989, Transplanting root-balled trees and British Standard Institute Specification 3936: 1992, Nursery Stock Part 1. Specification for Trees and Shrubs.***

5 All tree surgery work should be carried in accordance with ***British Standard Institute Specification 3998, Tree Surgery work.***

6 The site should be checked for the existence of any ***Tree Preservation orders, Conservation areas, Sites of Scientific Interest, Areas of Outstanding Natural Beauty, any deeds of covenant or/and other statutory instruments that may apply.***

Yours sincerely,



M Cooper

Peter Rice
Technical Manager
Keepmoat Homes
The Waterfront
Lakeside Boulevard
Doncaster
South Yorkshire

KEY TO M. COOPER TREE SURVEY HEADINGS

TR NO = TREE NUMBER

SPECIES= TREE SPECIES

HGT= OVERALL HEIGHT

STEM DIAM=TRUNK DIAMETER WHEN MEASURED AT 1.5 METRES FROM GROUND LEVEL

BR SPREAD = BRANCH SPREAD IN METRES ON ALL DIRECTIONS

HGT OF CRN CLRN= HEIGHT OF CROWN CLEARANCE TO THE BOTTOM BRANCH

AGE = Y= YOUNG TREE, SM = SEMI MATURE, M =MATURE, OM = OVER MATURE, VT = VETERAN

PHYS COND=PHYSIOLOGICAL CONDITION IE GOOD, FAIR, POOR, DEAD

STRUCTURAL CONDITION=OVERALL CONDITION, WEAKNESSES, DEFECTS ETC

PRELIMINARY MANAGEMENT RECOMMENDATIONS=SUGGESTED TREE SURGERY WORK

CAT = CATEGORY IN ACCORDANCE WITH BRITISH STANDARD INSTITUTE SPECIFICATION 5837 2005 FOR TREES IN RELATION TO CONSTRUCTION; RECOMMENDATIONS.

SS=SINGLE STEM TREE

MS= MULTI-STEM TREE

S=SHRUB OR SHRUBBERY

W=WOODLAND AREA OR WOODED PERIMIETER/SCREEN

H=HEDGELINE

G=GROUP

NB. WHEN ANY REFERENCE IS MADE IN THE REPORT ON WOUNDS OR A HEIGHT MEASUREMENT, THIS IS TAKEN AS BEING FROM GROUND LEVEL

Survey carried out in January 2009 by;
Michael Cooper. M.Arb. Dip. P.R.A

Site: Leslie Road
Kendray, Barnsley

Carried out on behalf of client: Keepmoat Homes
Technical Manager; Peter Rice

TR NO	SPECIES	HGT m	STEM DIAM mm	BR SPREAD m	HGT OF CRN CLRN m	AGE	PHYS COND	STRUCTURAL CONDITION.	PRELIMINARY MANAGEMENT RECOMMENDATIONS	EST. REMAIN CONT years	CAT
T1	Crataegus monogyna, Hawthorn.	6m	180mm GL	N 2.4m E 1.5m S 2.4m W 2.3m	2m	M	Poor	Two stems arising at ground level which eventually divides to produce four stems. Rubble tipped or bulldozed around the basal area. Numerous old wounds. This tree is growing adjacent to the boundary fence.	No work required	10	C3
T2	Crataegus monogyna, Hawthorn.	7m	170mm	N 2.5m E 0.0m S 2.6m W 2.7m	GL	M	Poor	One main stem throughout the crown with one lateral stem being produced at 1m to the east.	No work required	10	C3
T3	Populus balsamifera, Balsam Poplar.	16m	430mm	N 4.5m E 4.6m S 3.1m W 3.6m	1.4m	M	Fair	One stem throughout the crown. Sucker shoots at ground level Large wound on the lowest branch to the north west. Rubble tipped or bulldozed around the basal area.	No work required	10	C3

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TR NO	SPECIES	HGT m	STEM DIAM mm	BR SPREAD m	HGT OF CRN CLRN m	AGE	PHYS COND	STRUCTURAL CONDITION.	PRELIMINARY MANAGEMENT RECOMMENDATIONS	EST. REMAIN CONT years	CAT
T4	Populus balsamifera, Balsam Poplar.			N E S W		M	Poor	This tree is heavily suppressed by T3. Length of plastic string attached to the main stem which is slightly embedded into the bark One sided crown	Poor tree. Remove and replant	R	R
T5	Populus balsamifera, Balsam Poplar.			N E S W		M	Poor	This tree is extensively decayed at the base of the trunk	Poor tree. Remove and replant	R	R
T6	Acer pseudoplatanus, Sycamore.	15m		N E S W		M	Poor	The stem of this tree is in a poor condition to the south east. The roots have been damaged by the excavation/clearance works,	Poor tree. Remove and replant	R	R
T7	Acer pseudoplatanus, Sycamore.	15m	300mm	N 3.4m E 4.3m S 2.6m W 4.1m	6m	M	Fair	One stem throughout the overall crown. Some old branch stubs at 5m to the north. Sucker shoots at ground level. A stem has been removed at ground level	Remove sucker shoots	10	C2

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T8	Acer pseudoplatanus, Sycamore.	15m	340mm	N 2.1m E 4.5m S 3.2m W 4.6m	6m	M	Fair	One stem throughout the overall crown. Numerous old branch stubs on the first 6m of the main stem. Sucker shoots at ground level. Some of the branches are crossing and rubbing on the branches from T7	No work required Remove crossing and rubbing branches	10	C2
T9	Acer pseudoplatanus, Sycamore.		300mm	N 2.1m E 1.0m S 3.2m W4.8m	6m	M	Fair	One stem throughout the overall crown. Sucker shoots at ground level Major limb removed at 0.75 to the west. One sided crown with no branch spread to the east	Remove sucker shoots	10	C2
T10	Fraxinus excelsior, Common Ash.			N E S W		M	Poor	This tree is in a dangerous condition due to advanced decay on the main stem	Poor tree. Remove and replant	R	R

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T11	Acer pseudoplatanus, Sycamore.	10m		N E S W		M	Poor	This tree has a large bark wound on the main stem. The roots have been damaged by the excavation/clearance operations Section of metal embedded into the main trunk Numerous broken limbs	Poor tree. Remove and replant	R	R
T12	Acer pseudoplatanus, Sycamore.			N E S W		M	Poor	This tree is badly damaged with extensive bark damage. Coral spot infection is widespread in the crown which is dying back extensively	Poor tree. Remove and replant	R	R
T13	Prunus sp, Cherry.			N E S W		M	Poor	This small tree has probably evolved as a shoot from the root stock of an ornamental cheery or is a chance seedling. Its main stem is badly damaged due to its proximity to the main fence	Poor tree. Remove and replant	R	R

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T14	Prunus sp, Cherry.			N E S W		M	Poor	This small tree has probably evolved as a shoot from the root stock of an ornamental cheery or is a chance seedling. Its main stem is badly damaged due to its proximity to the main fence	Poor tree. Remove and replant	R	R
T15	X Cupressocyp. leylandii 'Castlewellan', Golden Leyland's Cypress.			N E S W		M	Poor	Half of the crown of this conifer is fire damaged	Poor tree. Remove and replant	R	R
T16	Acer pseudoplatanus, Sycamore.			N E S W		M	Poor	Numerous dead branches. The crown of this tree has been damaged as a result of a fire. The roots have been damaged due to the excavation/site clearance works. Large metal object embedded at the point where the two stems divide at 1m	Poor tree. Remove and replant	R	R

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T17	Salix sp, Willow.			N E S W		M	Poor	This tree is extensively decayed. The branches of this tree are hanging over into the development site This tree growing is in the garden of a private property	Poor tree. Remove and replant	R	R
H1	Sambucus nigra, Elderberry.	4-5m	120cm	Ave 3m Overall branch spread	GL	M	Poor	This is a line of Elderberry shrubs growing behind the boundary fence line. Any overhanging branches and those growing through the fence would need to be cut back to the boundary	Prune back overhanging branches	10	C3

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TR NO	SPECIES	HGT m	STEM DIAM mm	BR SPREAD m	HGT OF CRN CLRN m	AGE	PHYS COND	STRUCTURAL CONDITION.	PRELIMINARY MANAGEMENT RECOMMENDATIONS	EST. REMAIN CONT years	CAT
H2	X Cupressocyp. leylandii, Leyland's Cypress.	6-7m	130mm	Ave 2m Overall branch spread	GL	M	Fair	This is a line of 16 conifers growing on the development site. They are not planted on the boundary line but instead they are positioned well into the site. Their retention may not be advisable as they may sterilise the greater part of a garden subject to the development design layout	No work required	10	C3
H3	Crataegus monogyna, Hawthorn. Acer campestre, Field Maple. Cornus alba, Dogwood. Alnus sp, Alder.	4-6m	130mm	Ave 3m Overall branch spread	GL	M	Fair	This is a shrubbery/hedge line at the end of the site bordering onto the adjacent dwellings. It is in an unkempt condition and simply requires seasonal pruning to bring it into a useful condition	Carry out pruning as required for each species	10	C3
H4	Sambucus nigra, Elderberry. Ligustrum ovalifolium, Privet.	5m	120mm	Ave 3m Overall branch spread	GL	M	Fair	These are multi-stemmed shrubs/trees growing in the garden of a private property. The branches of these small trees are hanging over into the development site	Prune the overhanging branches back to the boundary fence or remove the shrubs/trees	10	C3

ROOT PROTECTION ZONE

The attached sheet(s) provide the root protection areas for each tree on site that is recommended for retention. This allows for developers to calculate the distance within which they can build in proximity to each tree.

I have provided two figures, these being;

The Overall Root protection zone.

This is in effect the total area around the trees canopy and rooting area which is required to be kept free of any development or encroachment to ensure it survives the development and post development period.

The Root Protection Radius

This is the radius of any area necessary to meet the requirements of the overall root protection zone. This should ideally be applied across the full width of the trees canopy.

NB These calculations are in accordance with the requirements of the British Standard Institute Specification 5837, 2005

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TR NO	SPECIES	TRUNK DIAMETER	ROOT PROTECTION AREA RADIUS	OVERALL ROOT PROTECTION AREA
T1	Crataegus monogyna, Hawthorn	180mm GL	1.8m	10.18 sq mt
T2	Crataegus monogyna, Hawthorn	170mm	2.04m	13.08 sq mt
T3	Populus balsamifera, Balsam Poplar	430mm	5.16m	83.66 sq mt
T4	Populus balsamifera, Balsam Poplar	R	R	R
T5	Populus balsamifera, Balsam Poplar	R	R	R
T6	Acer pseudoplatanus, Sycamore	R	R	R
T7	Acer pseudoplatanus, Sycamore	300mm	3.60m	40.72 sq mt
T8	Acer pseudoplatanus, Sycamore	340mm	4.08m	52.30 sq mt
T9	Acer pseudoplatanus, Sycamore	300mm	3.60m	40.72 sq mt
T10	Fraxinus excelsior, Common Ash	R	R	R
T11	Acer pseudoplatanus, Sycamore	R	R	R

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TR NO	SPECIES	TRUNK DIAMETER	ROOT PROTECTION AREA RADIUS	OVERALL ROOT PROTECTION AREA
T12	Acer pseudoplatanus, Sycamore	R	R	R
T13	Prunus sp, Cherry	R	R	R
T14	Prunus sp, Cherry	R	R	R
T15	X Cupressocyparis leylandii 'Castlewellan' Golden Leyland's Cypress	R	R	R
T16	Acer pseudoplatanus, Sycamore	R	R	R
T17	Salix sp, Willow	R	R	R
H1	Sambucus nigra, Elderberry			A root protection area measuring 2m beyond the edge of the crown spread is recommended
H2	X Cupressocyparis. leylandii, Leyland's Cypress			A root protection area measuring 2m beyond the edge of the crown spread is recommended
H3	Crataegus monogyna, Hawthorn. Acer campestre, Field Maple. Cornus alb, Dogwood. Alnus sp, Alder.			A root protection area measuring 2m beyond the edge of the crown spread is recommended

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TR NO	SPECIES	TRUNK DIAMETER	ROOT PROTECTION AREA RADIUS	OVERALL ROOT PROTECTION AREA
H4	Sambucus nigra, Elderberry. Ligustrum ovalifolium Privet.			A root protection area measuring 2m beyond the edge of the crown spread is recommended