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Pre-Development Arboricultural Report:

Proposed International Advanced Manufacturing Park (IAMP TWO) Land north of Nissan Sunderland Tyne and Wear

Prepared for: IAMP TWO

Job Ref: SCC_IAMP2_PD1.3

Report prepared by	Position	Date
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1.0 INTRODUCTION

1.1 Background & Scope

1.1.1 Dendra Consulting Ltd was commissioned to undertake this survey and assessment by Sunderland City Council. The scope of the contract was to undertake a pre-development arboricultural survey of land of the proposed IAMP TWO site, Sunderland, Tyne & Wear. The survey was carried out to BS 5837: Trees in Relation to Design, Demolition and Construction – Recommendations, 2012.

1.2 Personnel, Timing & weather conditions

1.2.1 The surveys were undertaken during January and February 2019 by Liam Robson. The weather was varied during the visits, with no significant visibility constraints.

1.3 Survey methodology

- 1.3.1 All observations were from ground level. Height was measured, where possible, using a clinometer and is expressed in metres. Crown spread is also expressed in metres. In dense tree cover height and crown spread may have been estimated. Stem Diameter at 1.5 metres was measured using calibrated DBH tape and is expressed in millimetres.
- 1.3.2 A tree quality assessment is made for each tree or group of trees as recommended in British Standard 5837 (2012). The resulting categories for the trees are as follows: U = Unsuitable for retention, C = Low value, B = Moderate value, A = High value. The associated number represents the assessment criteria; 1 = mainly arboricultural qualities, 2 = mainly landscape qualities, 3 = mainly cultural and conservation qualities. A cascade chart based on the recommendations in BS5837 is provided as figure 1.

Figure 1 – Chart for tree quality assessment. Adapted from BS5837 (2012).

Category	, ,	Criteria	,
Category U Trees unsuitable for retention. Trees in such a condition that they cannot be realistically retained for longer than 10 years	 Trees with se 	or dangerous trees erious structural defec erious physiological de	
·	1. Mainly arboricultural values	2. Mainly landscape values	3. Mainly cultural & conservation values
Category A Tree of high quality with an estimated remaining life expectancy of at least 40 years.	Trees that are particularly good examples of their species. Particularly of rare or unusual species. Trees forming essential parts of a group	Trees, groups or woodlands of particular visual importance.	Trees, groups or woodlands of significant conservation, historical, commemorative or other value.
Category B Trees of moderate quality with an estimated remaining life expectancy of at least 20 years.	Trees that might be categorised in the higher category but are downgraded because of impaired condition.	Trees present in numbers such that they attract a higher collective rating than they would as individuals.	Trees with material conservation or other cultural value.
Category C Trees of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 15cms.	Trees not qualifying in higher categories	Trees present in groups or woodlands that do not possess significant landscape values.	Trees with no material conservation or cultural value

1.4 Root protection

1.4.1 The Root Protection Area (RPA) is represented by an area in m² around a tree which acts as a protective zone. In our schedule of trees it is expressed both as the RPA and as the Root Protection Radius (RPR). The RPR is a figure given in metres used to identify the radius of a circle around a tree which serves to act as the RPA. In certain circumstances the shape of the RPA may be altered to suit site specific factors such as the presence of buildings, roads, other trees etc.

2.0 **REPORT FINDINGS**

2.1 147 individual trees, 47 groups and numerous hedgerows were surveyed. The full results of the survey are provided in section 4.0. The trees were examined for physiological and structural defects. Remedial works for such defects have been provided where appropriate. The results of the tree quality assessment is summarised in figure 2 below.

Figure 2 – The results of the tree q	uality assessment
Category	Tree/Group numbers
High	None
	T5, T8, T9, T11,T12, T13, T17, T26, T30, T33, T68,
	T74, T78, T94, T96, T97, T98, T100, T101, T103,
Moderate	T104, T123, T124, T125, T126, T130, T138, G16,
	G18, G25, G27, G30, G31, G32, G35, G36, G37,
	G42, H3
	T2, T3, T6, T7, T10, T14, T15, T16, T18, T19, T20,
	T21, T22, T23, T24, T25, T26, T27, T28, T29, T31,
	T32, T34, T35, T36, T42, T43, T44, T45, T46, T47,
	T48, T49, T51, T52, T53, T54, T55, T56, T57, T58,
	T60, T61, T62, T63, T64, T65, T66, T67, T69, T70,
	T71, T72, T73, T75,T79, T80 T82, T83, T84, T85,
	T86, T87, T88, T89, T90, T91, T95, T99, T105, T106,
Low	T108, T109, T110, T111, T112, T113, T114, T115,
	T116, T117, T118, T119, T120, T122, T127, T128,
	T129, T131, T133, T134, T135, T136, T137, T139,
	T140, T145, T146, T147,G1, G2, G3, G4, G5, G6,
	G7, G8, G9, G10, G11, G12, G13, G14, G15, G17,
	G19, G20, G21, G22, G23, G24, G25, G26, G28,
	G29, G33, G34, G38, G39, G40, G41, G43, G44,
	G45, G46, G47, H1, H2
	T1, T4, T37, T38, T39, T40, T41, T50, T59, T76, T77,
Unsuitable for retention	T81, T92, T93, T102, T107, T121, T132, T141, T142,
	T143, T144

- 2.2 Numerous hedgerows were surveyed throughout the site. All of these hedgerows have been numbered into their relevant type (H1, H2 or H3) as specified in the schedule of trees.
- 2.3 A total of 47 groups were surveyed. The majority of these were grouped as they of a greater arboricultural significance as a collective. Additional areas of

tree cover were grouped due to all individuals not being identified as individuals on the topographical survey, or restricted access. Areas of limited access included plots of land and residential properties, and the shelterbelt woodlands screening the A19.

2.4 In addition to limited access to some areas within the site, the inspection of further trees was also not possible due to additional factors. These included the presence of dense scrub, specimens situated on bank sides and the presence of dense ivy on stems.

3.0 TREES AND DEVELOPMENT

3.1 Tree retention/removal

3.1.1 The removal of C category trees is often unlikely to result in any significant arboricultural impacts. B and A category trees should, where possible, be retained and protected within a development. Mitigation for the removal of trees, particularly B and A category trees, will be required.

3.2 Development within the protected area

- 3.2.1 Development within the RPA or the Crown Spread (the protected area) is not recommended and should be discouraged. However in some cases it is unavoidable and may be permitted. Development within the protected area will only be acceptable if it does not significantly compromise the above or below ground constraints provided by the trees. The following activities would generally <u>not</u> be acceptable within the protected area:
 - Alterations to the existing ground levels greater than 50mm.
 - The construction of strip foundations.
 - The construction of roads using standard construction methods. Low level usage roads (such as driveways or parking bays) may be permitted.
 - The use of pin kerbs.
 - The installation of underground services using standard excavation and installation methods.
 - The installation of any impermeable hard surface which covers more than 20% of the RPA.
- 3.2.2 The following are examples of development which <u>may</u> be considered acceptable within the RPA. However these methods are site specific and are not suitable in all situations:
 - Foundations constructed using a low invasive technique. This can involve the use of piles, beams, slabs, suspended floors, etc. However

please note that in certain circumstances even these methods require some degree of excavation and this would not be permitted if it was to result in significant changes in soil levels or the excavation of trenches. Also note the restrictions above regarding the level of intrusion into the RPA using an impermeable hard surface.

- Low level use vehicular access points and driveways. These would be subject to the same restrictions regarding the level of intrusion by an impermeable surface. Permeable surfaces are preferred. No pin kerbs can be used and edging materials will need to be located at ground level and supported on pins driven into the ground.
- Specially constructed roads and driveways. These would incorporate a three dimensional cellular confinement system to reduce compaction of the rooting environment.
- Installation of services using low invasive techniques. This could involve microtunnelling, pipe ramming, impact moling, or the use of hand digging under direct supervision of an arboriculturist.

3.3 Post development issues

3.3.1 Potential post development tree/resident conflicts such as encroachment, shading, leaf fall, honeydew, etc usually arise from the erection of residential properties close to large trees. Such problems are subjective and depend entirely on different attitudes to trees. Consequently the impacts are difficult to predict with any degree of accuracy. However the relative positioning of buildings to trees should be considered at the start of a project in order to reduce the potential for such impacts.

3.4 Arboricultural Impact Assessment and Method Statement

3.4.1 Once a suitable design for the site has been agreed an AIA should be completed in order to identify any potential impacts on the trees and identify appropriate mitigation measures such as protective fencing, special construction methods or ground protection measures. The AIA should consider the following:

- Pre-development impacts such as felling or pruning
- Mid-development impacts such as demolition and construction.
- Post-development impacts such as tree/building conflicts caused by excessive shading of buildings.
- Mitigation and compensation measures such as protective fencing,
 restrictions on working methods and new planting.
- 3.4.2 An arboricultural method statement may also be required if trees are to be affected by the proposals. The method statement will provide detailed specifications for works likely to affect trees and is often requested as a planning condition.

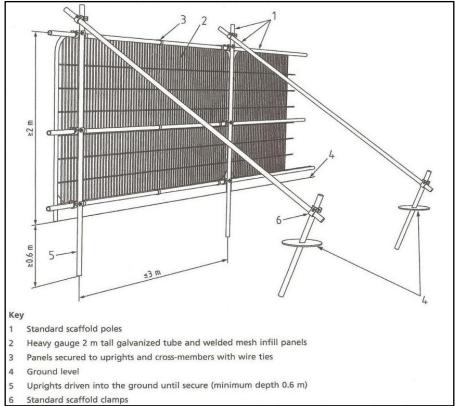
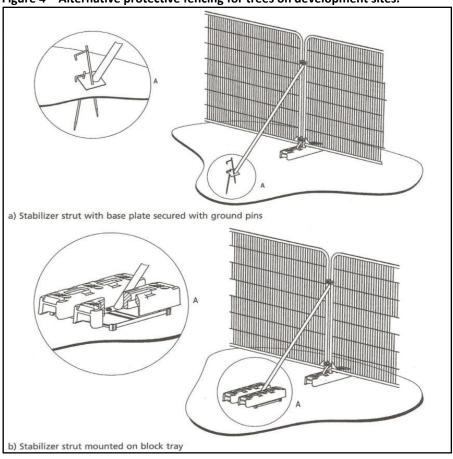


Figure 3 – Default protective fencing for trees on development sites.

Figure 4 – Alternative protective fencing for trees on development sites.



[Figures 3 & 4 reproduced with the permission of the British Standards Institute].

4.0 SCHEDULE OF TREES

KEY

NR = Not recorded

Age: Y = Young, SM = Semi mature, EM = Early mature, M = Mature, OM = Over mature **Estimated Remaining Contribution** – Expressed in years.

				Cr	own Sp	oread (m)	nopy (m)	significant (m)	irst nch		remaining oution			Assessment		
No.	Species	Height (m)	Stem diam. (mm)	N	E	S	w	Height of main canopy (m)	Height of first sign branch (m)	Direction of first significant branch	Age class	Estimated remain contribution	Comments	Recommendations	Tree quality Asse	RPA (m²)	RPR (m)
H1	Mixed	4.0	150	NR	NR	NR	NR	0.1	NR	NR	М	40+	Entirely intact or almost stock- proof hedgerow. Dominated by Hawthorn. Additional species include Rosa spp., Sycamore, Ash, Blackthorn, Elder and Cypress	Restock hedgerow where necessary	C2	10	1.8
H2	Mixed	4.0	150	NR	NR	NR	NR	0.1	NR	NR	М	40+	Defunct hedgerow. Many with over mature, remnant species. Dominated by Hawthorn. Additional species include Rosa spp., Sycamore, Ash, Blackthorn, Elder and Gorse	Bring into formal management	C2	10	1.8
H3	Mixed	4.0	150	NR	NR	NR	NR	0.1	NR	NR	М	40+	Hedgerow with additional trees. Hedgerow dominated by Hawthorn. Additional species include Rosa spp., Sycamore, Ash, Blackthorn, Elder	Restock hedgerow where necessary	C2/ B2	10	1.8

				Cr	own Sp	oread (m)	(m) ydot	nificant)	of first branch		iining n			Assessment		
No.	Species	Height (m)	Stem diam. (mm)	N	E	S	w	Height of main canopy (m)	Height of first significant branch (m)	Direction of first significant branch	Age class	Estimated remaining contribution	Comments	Recommendations	Tree quality Asse	RPA (m²)	RPR (m)
T1	Sycamore	8.0	600	4.0	4.0	3.0	4.0	2.0	NR	NR	М	-10	Extensive stem decay at base. Tree located near roadside	Fell	U	163	7.2
T2	Sycamore	10.0	550	4.0	3.0	4.0	4.0	3.0	NR	NR	М	10+	Deadwood in crown. Growing around fence	Remove deadwood. Monitor annually	C1	137	6.6
Т3	Sycamore	12.0	700	5.0	6.0	3.0	4.0	2.0	NR	NR	M	10+	Decay of stem base evident. Minor dieback of crown evident. Ivy on stem. Growing around fence	Monitor annually	C1	222	8.4
T4	Sycamore	10.0	500	3.0	4.0	3.0	2.0	2.0	NR	NR	М	-10	Growing around fence. Extensive damage and hollowing of stem	Fell	U	113	6.0
T5	Sycamore	12.0	620	3.0	4.0	4.0	4.0	2.0	NR	NR	М	40+	No major defects	No action required at the present time	B1	174	7.4
Т6	Sycamore	12.0	400	3.0	3.0	1.0	3.0	2.0	NR	NR	EM	40+	No major defects	No action required at the present time	C1	72	4.8
T7	Sycamore	14.0	300	2.0	1.0	3.0	1.0	3.0	NR	NR	EM	20+	Suppressed specimen	No action required at the present time	C1	41	3.6
Т8	Poplar	20.0	640	3.0	6.0	6.0	2.0	2.5	NR	NR	М	20+	Two co dominant stems from 1.5m. Growing around fence. Slight lean towards road	Monitor biennially	B1	185	7.7
Т9	Sycamore	16.0	440	4.0	3.0	6.0	4.0	2.5	NR	NR	EM	40+	Deadwood in lower crown	Remove deadwood	B1	88	5.3
T10	Sycamore	14.0	290	2.0	6.0	2.0	1.0	2.5	NR	NR	EM	10+	Suppressed specimen	Monitor annually	C1	38	3.5
T11	Sycamore	16.0	330	4.0	3.0	3.0	4.0	3.0	NR	NR	EM	20+	No major defects	No action required at the present time	B1	49	4.0
T12	Sycamore	16.0	330	3.0	1.0	2.0	6.0	3.0	NR	NR	EM	40+	No major defects	No action required at the present time	B1	49	4.0

				Cr	own Sp	pread (m)	nopy (m)	nificant)	of first branch		aining on			Assessment		
No.	Species	Height (m)	Stem diam. (mm)	N	E	S	w	Height of main canopy (m)	Height of first significant branch (m)	Direction of first significant branch	Age class	Estimated remaining contribution	Comments	Recommendations	Tree quality Asse	RPA (m²)	RPR (m)
T13	Sycamore	16.0	460	4.0	5.0	2.0	4.0	2.5	NR	NR	EM	40+	No major defects	No action required at the present time	B1	96	5.5
T14	Prunus	2.0	100	1.0	1.0	1.0	1.0	1.0	NR	NR	М	10+	Heavily pruned	No action required at the present time	C1	5	1.2
T15	Silver Birch	4.0	100	1.0	1.0	1.0	1.0	2.0	NR	NR	SM	20+	No major defects	No action required at the present time	C1	5	1.2
T16	Silver Birch	8.0	200	2.0	2.0	2.0	2.0	1.0	NR	NR	М	40+	Minor deadwood in lower crown	No action required at the present time	C1	18	2.4
T17	Sycamore	16.0	800	5.0	5.0	6.0	5.0	1.0	NR	NR	М	40+	Two co dominant stems from 1.8m	No action required at the present time	B1	290	9.6
T18	Lime	5.0	100	1.0	2.0	1.0	2.0	1.5	NR	NR	EM	40+	No major defects	No action required at the present time	C1	5	1.2
T19	Cherry	10.0	300	3.0	5.0	3.5	5.0	2.0	NR	NR	М	20+	Two co dominant stems from 0.5m. Growing around fence. Fork contains included bark	No action required at the present time	C1	41	3.6
T20	Ash	10.0	240	4.0	3.0	2.0	4.0	3.0	NR	NR	EM	20+	Pruned in past	No action required at the present time	C1	26	2.9
T21	Rowan	4.0	80	0.5	0.5	0.5	0.5	2.0	NR	NR	EM	20+	No major defects	No action required at the present time	C1	3	1.0
T22	Prunus	5.0	100	2.0	2.0	2.0	0.5	2.0	NR	NR	EM	20+	No major defects	No action required at the present time	C1	5	1.2
T23	Japanese Cherry	4.0	260	2.0	3.0	3.0	3.0	2.0	NR	NR	EM	20+	Pruned in past	No action required at the present time	C1	31	3.1
T24	Sycamore	5.0	220	1.0	0.5	0.5	0.5	2.0	NR	NR	EM	20+	No major defects	No action required at the present time	C1	22	2.6

				Cr	own Sp	oread (m)	(m) ydor	nificant)	of first branch		aining			Assessment		
No.	Species	Height (m)	Stem diam. (mm)	N	E	S	W	Height of main canopy (m)	Height of first significant branch (m)	Direction of f significant bra	Age class	Estimated remaining contribution	Comments	Recommendations	Tree quality Asse	RPA (m²)	RPR (m)
T25	Sycamore	12.0	350	3.0	2.0	3.0	4.0	3.0	NR	NR	EM	40+	No major defects	No action required at the present time	C1	55	4.2
T26	Silver Birch	10.0	370	4.0	6.0	5.0	4.0	2.5	NR	NR	М	40+	Damage to stems evident	No action required at the present time	B1	62	4.4
T27	Ash	14.0	800	6.0	6.0	7.0	7.0	0.5	NR	NR	ОМ	10+	Over mature specimen	No action required at the present time	C1	290	9.6
T28	Ash	10.0	450	3.0	5.0	4.5	3.0	1.0	NR	NR	М	10+	Decay of stem base evident	No action required at the present time	C1	92	5.4
T29	Ash	12.0	570	5.0	4.0	6.0	5.0	1.0	NR	NR	М	10+	Decay of stem base evident	No action required at the present time	C1	147	6.8
T30	Ash	16.0	800	6.0	7.0	9.0	6.0	2.0	NR	NR	ОМ	10+	Most prominent tree in hedgerow	No action required at the present time	B1	290	9.6
T31	Willow	12.0	500	5.0	5.0	5.0	5.0	0.1	NR	NR	М	20+	Inspection limited. Tree located in bankside and scrub. Multi stemmed	No action required at the present time	C1	113	6.0
T32	Ash & Willow	14.0	500	5.0	5.0	5.0	5.0	0.1	NR	NR	М	20+	Inspection limited. Tree located in bankside and scrub. Multi stemmed	No action required at the present time	C1	113	6.0
T33	Willow	14.0	700	5.0	8.0	6.0	5.0	0.5	NR	NR	М	20+	Inspection limited. Tree located on bankside.	No action required at the present time	B1	222	8.4
T34	Willow	14.0	550	4.0	6.0	4.0	4.0	0.5	NR	NR	М	20+	Bankside tree	No action required at the present time	C1	137	6.6
T35	Sycamore	8.0	250	2.0	2.0	2.0	2.0	2.0	NR	NR	EM	40+	Bankside tree	No action required at the present time	C1	28	3.0
T36	Willow	6.0	250	3.0	5.0	3.0	3.0	1.0	NR	NR	М	20+	Bankside tree. X2 Willow	No action required at the present time	C1	28	3.0

No.	Species	Height	Stem diam. (mm)	Cr	own Sp	oread (m)	Height of main canopy (m)	Height of first significant branch (m)	Direction of first significant branch	Age class	Estimated remaining contribution	Comments	Recommendations	Tree quality Assessment	RPA (m²)	RPR (m)
T37	Willow	8.0	800	5.0	4.0	3.0	3.0	0.5	NR	NR	OM	-10	Extensive hollowing	Fell	U	290	9.6
T38	Willow	12.0	400	4.0	2.0	4.0	4.0	2.0	NR	NR	M	-10	Tree in decline	Fell	U	72	4.8
T39	Willow	10.0	450	4.0	5.0	1.0	1.0	2.5	NR	NR	М	-10	Tree in decline	Fell	U	92	5.4
T40	Willow	14.0	800	8.0	10.0	9.0	8.0	1.0	NR	NR	М	10+	Major limb loss evident. Tree in decline	Fell	U	290	9.6
T41	Sycamore	8.0	450	4.0	4.0	4.0	4.0	2.0	NR	NR	М	-10	Basal decay. Dieback of crown evident	Fell	U	92	5.4
T42	Sycamore	6.0	600	5.0	5.0	5.0	4.0	2.0	NR	NR	М	10+	Multiple stems. Located on bankside. Ivy on stem. Inspection limited	No action required at the present time	C1	163	7.2
T43	Ash	10.0	360	5.0	5.0	5.0	2.0	2.0	NR	NR	М	10+	Ivy on stem. Twin stems from base. Inspection limited	No action required at the present time	C1	59	4.3
T44	Sycamore	5.0	150	2.0	1.0	2.0	2.0	0.5	NR	NR	SM	20+	Located on bankside	No action required at the present time	C1	10	1.8
T45	Ash	10.0	250	3.0	4.0	4.0	4.0	0.5	NR	NR	М	10+	Ivy on stem. Inspection limited. Minor dieback of crown evident	No action required at the present time	C1	28	3.0
T46	Sycamore	7.0	360	4.0	4.0	4.0	4.0	0.5	NR	NR	М	10+	lvy on stem. Located on bankside. Inspection limited	No action required at the present time	C1	59	4.3
T47	Ash	5.0	200	3.0	3.0	3.0	3.0	1.0	NR	NR	SM	10+	Located on bankside. Multiple stems	No action required at the present time	C1	18	2.4
T48	Sycamore	8.0	450	4.0	4.0	4.0	4.0	2.0	NR	NR	EM	10+	x3 Sycamore located on bankside. Multiple stems	No action required at the present time	C1	92	5.4
T49	Sycamore	6.0	300	3.0	4.0	4.0	2.0	1.0	NR	NR	EM	10+	Located on bankside. Inspection limited	No action required at the present time	C1	41	3.6
T50	Ash	6.0	350	2.0	3.0	2.0	2.0	2.0	NR	NR	M	-10	Extensive dieback of crown	Fell	U	55	4.2

				Cr	own Sp	oread (m)	(m) ydou	nificant)	of first branch		remaining bution			Assessment		
No.	Species	Height (m)	Stem diam. (mm)	2	E	S	w	Height of main canopy (m)	Height of first significant branch (m)	Direction of first significant branch	Age class	Estimated remain contribution	Comments	Recommendations	Tree quality Asse	RPA (m²)	RPR (m)
T51	Wych Elm	6.0	250	4.0	3.0	4.0	3.0	1.0	NR	NR	М	10+	Roadside tree	No action required at the present time	C1	28	3.0
T52	Ash	6.0	250	2.0	3.0	4.0	2.0	0.1	NR	NR	SM	10+	Growing around fence. Twin stems from base	No action required at the present time	C1	28	3.0
T53	Ash	14.0	450	5.0	5.0	4.0	4.0	1.0	NR	NR	М	10+	Dense ivy on stem. Inspection limited. Deadwood in crown	Monitor annually	C1	92	5.4
T54	Ash	16.0	600	5.0	5.0	5.0	5.0	2.0	NR	NR	М	10+	Decay of lower limb evident. Deadwood in crown	Monitor annually	C1	163	7.2
T55	Sycamore	12.0	300	2.0	3.0	1.0	1.0	2.0	NR	NR	SM	20+	No major defects	No action required at the present time	C1	41	3.6
T56	Lime	14.0	300	1.0	3.0	3.0	1.0	1.0	NR	NR	SM	20+	No major defects	No action required at the present time	C1	41	3.6
T57	Sycamore	12.0	450	4.0	1.0	5.0	5.0	1.0	NR	NR	EM	20+	Multiple stems	No action required at the present time	C1	92	5.4
T58	Wych Elm	10.0	320	4.0	4.0	4.0	4.0	2.0	NR	NR	EM	20+	Minor decay of stem evident	No action required at the present time	C1	46	3.8
T59	Ash	8.0	450	0.0	1.0	2.0	4.0	2.0	NR	NR	ОМ	-10	Virtually dead	Fell	U	92	5.4
T60	Ash & Wych Elm	14.0	350	5.0	6.0	6.0	6.0	1.0	NR	NR	М	10+	Species includes Ash and Wych Elm. Multiple stems	No action required at the present time	C1	55	4.2
T61	Wych Elm	10.0	300	4.0	3.0	1.0	3.0	1.0	NR	NR	EM	10+	Stem damage evident	No action required at the present time	C1	41	3.6
T62	Wych Elm	8.0	200	1.0	3.0	3.0	2.0	2.0	NR	NR	EM	10+	Minor stem damage evident	No action required at the present time	C1	18	2.4
T63	Goat Willow	6.0	200	4.0	2.0	4.0	2.0	1.0	NR	NR	SM	10+	Located in hedgerow. Multiple stems	No action required at the present time	C1	18	2.4

				Cr	own Sp	oread (m)	(m) ydou	nificant)	of first branch		aining n			Assessment		
No.	Species	Height (m)	Stem diam. (mm)	N	E	S	W	Height of main canopy (m)	Height of first significant branch (m)	Direction of fi significant bra	Age class	Estimated remaining contribution	Comments	Recommendations	Tree quality Asse	RPA (m²)	RPR (m)
T64	Wych Elm	5.0	350	3.0	4.0	3.0	3.0	1.0	NR	NR	М	10+	Multiple stems	No action required at the present time	C1	55	4.2
T65	Sycamore	6.0	350	3.0	4.0	4.0	3.0	1.0	NR	NR	М	10+	Multiple stems. Minor deadwood in crown	No action required at the present time	C1	55	4.2
T66	Sycamore	6.0	400	4.0	3.0	4.0	3.0	1.0	NR	NR	М	10+	Minor dieback of crown	No action required at the present time	C1	72	4.8
T67	Sycamore	7.0	500	4.0	4.0	4.0	4.0	1.0	NR	NR	М	10+	Minor deadwood in crown	No action required at the present time	C1	113	6.0
T68	Ash	12.0	600	6.0	4.0	4.0	6.0	0.5	NR	NR	М	10+	Growing around fence. Minor decay of stem evident	No action required at the present time	B1	163	7.2
T69	Oak	12.0	320	4.0	3.0	4.0	3.0	2.0	NR	NR	EM	10+	Decay of stem evident	No action required at the present time	C1	46	3.8
T70	Oak	8.0	500	4.0	5.0	4.0	5.0	0.5	NR	NR	EM	10+	Decay of stem base evident	No action required at the present time	C1	113	6.0
T71	Ash	8.0	280	2.0	5.0	4.0	2.0	0.5	NR	NR	EM	10+	Asymmetric crown	No action required at the present time	C1	35	3.4
T72	Sycamore	12.0	400	2.0	4.0	3.0	3.0	1.0	NR	NR	EM	10+	Decay of stem evident	No action required at the present time	C1	72	4.8
T73	Sycamore	12.0	280	2.0	4.0	4.0	2.0	2.0	NR	NR	EM	10+	No major defects	No action required at the present time	C1	35	3.4
T74	Sycamore	12.0	600	5.0	4.0	3.0	5.0	1.0	NR	NR	М	20+	Minor deadwood in crown. Growing around fence	No action required at the present time	B1	163	7.2
T75	Beech	10.0	400	6.0	4.0	2.0	3.0	0.5	NR	NR	EM	10+	Decay of stem evident	No action required at the present time	C1	72	4.8
T76	Ash	10.0	550	4.0	4.0	5.0	4.0	2.0	NR	NR	М	-10	<i>Inonotus hispidus</i> on stem. Dieback of crown	Fell	U	137	6.6

				Cr	own Sp	oread (m)	(m) ydot	nificant)	of first branch		iining n			Assessment		
No.	Species	Height (m)	Stem diam. (mm)	N	E	S	w	Height of main canopy (m)	Height of first significant branch (m)	Direction of f significant bra	Age class	Estimated remaining contribution	Comments	Recommendations	Tree quality Asse	RPA (m²)	RPR (m)
T77	Ash	10.0	450	5.0	5.0	4.0	4.0	2.0	NR	NR	М	-10	Dieback of crown	Fell	U	92	5.4
T78	Ash	14.0	800	9.0	7.0	7.0	7.0	0.5	NR	NR	M	20+	Deadwood in crown. Growing around fence	Monitor biennially	B1	290	9.6
T79	Sycamore	6.0	340	3.0	3.0	3.0	3.0	1.0	NR	NR	EM	20+	No major defects	No action required at the present time	C1	52	4.1
T80	Hawthorn	5.0	200	2.0	1.0	2.0	3.0	0.5	NR	NR	М	10+	Asymmetric crown	No action required at the present time	C1	18	2.4
T81	Oak	10.0	800	5.0	7.0	5.0	5.0	0.5	NR	NR	OM	-10	Extensive decay of stem evident	Fell	U	290	9.6
T82	Elm	8.0	400	1.0	4.0	3.0	3.0	2.0	NR	NR	М	10+	Ivy on stem	No action required at the present time	C1	72	4.8
T83	Sycamore	16.0	450	4.0	4.0	3.0	4.0	2.0	NR	NR	М	20+	Deadwood in crown	Remove deadwood	C1	92	5.4
T84	Sycamore	12.0	350	5.0	4.0	1.0	4.0	2.0	NR	NR	EM	20+	Asymmetric crown	No action required at the present time	C1	55	4.2
T85	Ash	14.0	500	6.0	3.0	5.0	5.0	3.0	NR	NR	М	20+	1 dominant and 1 sub dominant stem from 1m	No action required at the present time	C1	113	6.0
T86	Sycamore	18.0	450	4.0	5.0	4.0	1.0	2.0	NR	NR	М	20+	Minor deadwood in crown	No action required at the present time	C1	92	5.4
T87	Sycamore	14.0	490	4.0	3.0	4.0	3.0	2.0	NR	NR	EM	20+	Growing close to structure	No action required at the present time	C1	109	5.9
T88	Sycamore	10.0	300	2.0	1.0	3.0	2.0	1.0	NR	NR	EM	10+	Growing out of bankside. Multiple stems	No action required at the present time	C1	41	3.6
T89	Ash	8.0	200	2.0	3.0	3.0	1.0	1.0	NR	NR	EM	10+	Growing out of bankside	No action required at the present time	C1	18	2.4
T90	Sycamore	14.0	500	3.0	2.0	4.0	4.0	1.0	NR	NR	EM	20+	Two co dominant stems from base. Fork contains included bark	No action required at the present time	C1	113	6.0

No.	Species	Height	Stem diam. (mm)	Cr	own Sp	oread (i	m)	Height of main canopy (m)	Height of first significant branch (m)	Direction of first significant branch	Age class	Estimated remaining contribution	Comments	Recommendations	Tree quality Assessment	RPA (m²)	RPR (m)
T91	Sycamore	14.0	500	4.0	4.0	4.0	1.0	1.0	NR	NR	EM	20+	Two co dominant stems from 1m. Fork contains included bark	No action required at the present time	C1	113	6.0
T92	Sycamore	4.0	100	1.0	1.0	1.0	1.0	0.5	NR	NR	SM	10+	Suppressed specimen	Fell	U	5	1.2
T93	Horse Chestnut	14.0	680	5.0	3.0	6.0	6.0	1.0	NR	NR	М	-10	Extensive decay of stem base. Tree in decline	Fell	U	209	8.2
T94	Horse Chestnut	16.0	980	6.0	8.0	8.0	6.0	1.0	NR	NR	М	20+	Growing around barbed wire fence	Monitor biennially	B1	434	11.8
T95	Horse Chestnut	14.0	660	8.0	4.0	4.0	2.0	0.5	NR	NR	М	10+	Minor damage of stem evident. Limb loss evident in past	Monitor biennially	C1	197	7.9
T96	Horse Chestnut	16.0	960	6.0	6.0	8.0	3.0	0.5	NR	NR	М	20+	No major defects	Monitor biennially	B1	417	11.5
T97	Horse Chestnut	14.0	800	6.0	6.0	5.0	5.0	0.1	NR	NR	М	10+	Limb loss evident in past	Monitor biennially	B1	290	9.6
T98	Beech	20.0	1040	8.0	8.0	10.0	7.0	0.5	NR	NR	М	20+	Two co dominant stems from base. Fork contains included bark	Monitor biennially	B1	489	12.5
T99	Sycamore	14.0	600	1.0	2.0	4.0	1.0	1.0	NR	NR	EM	10+	Top of bankside. Deadwood in crown	Remove deadwood	C1	163	7.2
T100	Sycamore	22.0	790	6.0	6.0	4.0	6.0	2.0	NR	NR	М	20+	Deadwood in crown	Remove deadwood	B1	282	9.5
T101	Sycamore	18.0	590	6.0	6.0	4.0	6.0	2.0	NR	NR	М	20+	Deadwood in crown	Remove deadwood	B1	157	7.1
T102	Sycamore	16.0	600	6.0	3.0	3.0	6.0	1.0	NR	NR	М	-10	Decay of stem base. Hollowing of stem evident	Fell	U	163	7.2
T103	Sycamore	20.0	630	7.0	4.0	3.0	4.0	1.0	NR	NR	М	40+	Minor deadwood in crown	Remove deadwood	B1	180	7.6
T104	Sycamore	18.0	540	4.0	6.0	6.0	1.0	2.0	NR	NR	М	20+	Asymmetric. Deadwood in crown	Remove deadwood	B1	132	6.5

				Cr	own Sp	oread (m)	(m) kdou	nificant)	of first branch		iining n			Assessment		
No.	Species	Height (m)	Stem diam. (mm)	N	E	S	W	Height of main canopy (m)	Height of first significant branch (m)	Direction of f significant bra	Age class	Estimated remaining contribution	Comments	Recommendations	Tree quality Asse	RPA (m²)	RPR (m)
T105	Ash	6.0	350	2.0	4.0	3.0	4.0	1.0	NR	NR	М	10+	Broken branches in crown. Located in hedgerow	No action required at the present time	C1	55	4.2
T106	Ash	6.0	300	3.0	3.0	3.0	3.0	1.0	NR	NR	M	10+	Located in hedgerow	No action required at the present time	C1	41	3.6
T107	Sycamore	6.0	350	3.0	3.0	3.0	3.0	1.0	NR	NR	M	-10	Extensive decay of stem in hedgerow	Fell	U	55	4.2
T108	Sycamore	6.0	350	3.0	3.0	3.0	3.0	1.0	NR	NR	М	10+	Multiple stems from base. Deadwood in crown	No action required at the present time	C1	55	4.2
T109	Ash	6.0	150	2.0	2.0	2.0	2.0	2.0	NR	NR	SM	20+	No major defects	No action required at the present time	C1	10	1.8
T110	Ash	6.0	150	2.5	2.5	2.5	2.5	2.0	NR	NR	SM	20+	No major defects	No action required at the present time	C1	10	1.8
T111	Hawthorn	3.0	150	2.0	1.0	1.0	1.0	0.5	NR	NR	М	10+	Dense ivy on stem	No action required at the present time	C1	10	1.8
T112	Hawthorn	3.0	200	2.0	1.0	1.0	1.0	0.5	NR	NR	М	10+	Dense ivy on stem	No action required at the present time	C1	18	2.4
T113	Ash	6.0	200	3.0	3.0	3.0	3.0	1.0	NR	NR	SM	20+	No major defects	No action required at the present time	C1	18	2.4
T114	Hawthorn	3.0	150	1.0	1.0	2.0	2.0	0.5	NR	NR	М	10+	No major defects	No action required at the present time	C1	10	1.8
T115	Ash	6.0	200	2.0	2.0	2.0	2.0	2.0	NR	NR	SM	20+	No major defects	No action required at the present time	C1	18	2.4
T116	Ash	12.0	500	4.0	5.0	5.0	5.0	0.5	NR	NR	М	20+	Multiple stems from base. Pruned in past	No action required at the present time	C1	113	6.0
T117	Sycamore	8.0	350	3.0	3.0	3.0	3.0	0.5	NR	NR	EM	10+	Tree appears in decline. Located in waterlogged area	No comments	C1	55	4.2

No.	Species	Height	Stem diam.	Cr	own Sp	oread (m)	Height of main canopy (m)	Height of first significant branch (m)	Direction of first significant branch	Age class	Estimated remaining contribution	Comments	Recommendations	Tree quality Assessment	RPA (m²)	RPR
T118	Sycamore	8.0	400	4.0	4.0	4.0	1.0	1.0	NR	NR	EM	20+	Attached to barbed wire fence. Multiple stems	No action required at the present time	C1	72	4.8
T119	Sorbus	4.0	300	3.0	2.0	1.0	2.0	1.0	NR	NR	М	10+	Deadwood in crown	No action required at the present time	C1	41	3.6
T120	Sycamore	8.0	300	2.5	2.5	2.5	2.5	1.0	NR	NR	EM	20+	Dense ivy on stem. Inspection limited	Sever ivy	C1	41	3.6
T121	Elder	6.0	250	1.0	2.0	2.0	1.0	0.5	NR	NR	OM	-10	Over mature specimen	Fell	U	28	3.0
T122	Sycamore	5.0	150	1.0	1.0	1.0	1.0	0.5	NR	NR	SM	10+	Poor specimen	No action required at the present time	C1	10	1.8
T123	Horse Chestnut	6.0	350	3.0	3.0	3.0	3.0	2.0	NR	NR	EM	40+	No major defects	No action required at the present time	B1	55	4.2
T124	Norway Maple	8.0	350	3.0	3.0	4.0	3.0	2.0	NR	NR	EM	40+	No major defects	No action required at the present time	B1	55	4.2
T125	Norway Maple	8.0	380	3.0	5.0	4.0	4.0	2.5	NR	NR	EM	40+	Waste materials at base	Remove waste materials from base	B1	65	4.6
T126	Acer	14.0	500	4.0	4.0	4.0	4.0	2.5	NR	NR	М	40+	Surveyed from distance. Located in private property	No comments	B1	113	6.0
T127	Sorbus	6.0	250	2.0	2.0	2.0	1.0	2.0	NR	NR	EM	20+	Minor damage to stem base	No action required at the present time	C1	28	3.0
T128	Sorbus	6.0	220	3.0	1.0	2.0	0.0	2.0	NR	NR	EM	20+	No major defects	No action required at the present time	C1	22	2.6
T129	Sycamore	12.0	500	3.0	2.0	1.0	4.0	2.0	NR	NR	М	20+	Multiple stems from base. Dense ivy on stem. Inspection limited. Dieback of crown evident. Possibly in decline	Monitor biennially	C1	113	6.0

				Cr	own Sp	oread (m)	canopy (m)	significant (m)	of first branch		remaining bution			Assessment		
No.	Species	Height (m)	Stem diam. (mm)	N	E	S	W	Height of main car	Height of first sign branch (m)	Direction of first significant branch	Age class	Estimated remain contribution	Comments	Recommendations	Tree quality Asse	RPA (m²)	RPR (m)
T130	Sycamore	16.0	640	5.0	6.0	6.0	6.0	2.0	NR	NR	М	40+	Deadwood in crown. lvy on stem	Sever ivy. Remove deadwood	B1	185	7.7
T131	Sycamore	12.0	350	2.0	0.0	1.0	4.0	1.0	NR	NR	EM	10+	Dense ivy on stem. Located on top of culvert	No action required at the present time	C1	55	4.2
T132	Ash	14.0	500	3.0	3.0	2.0	4.0	0.1	NR	NR	М	-10	Dieback of crown. Decay of limbs evident. Tree in decline	Fell	U	113	6.0
T133	Sycamore	8.0	400	3.0	4.0	4.0	4.0	2.0	NR	NR	М	20+	Roadside tree. Decay of southern limb evident	Remove decayed limb	C1	72	4.8
T134	Mixed	8.0	250	2.0	3.0	2.0	3.0	0.5	NR	NR	SM	20+	X1 Ash and X1 Sycamore	No action required at the present time	C1	28	3.0
T135	Ash	8.0	400	2.0	4.0	4.0	3.0	0.1	NR	NR	EM	20+	Multiple stems from base. Located on bankside	No action required at the present time	C1	72	4.8
T136	Ash	8.0	450	3.0	3.0	3.0	3.0	0.1	NR	NR	EM	20+	Multiple stems from base. Deadwood in crown. Located on bankside	No action required at the present time	C1	92	5.4
T137	Ash	6.0	280	2.0	1.5	3.0	2.0	0.5	NR	NR	SM	10+	Located on bankside	No action required at the present time	C1	35	3.4
T138	Ash	10.0	550	4.0	4.0	4.0	6.0	1.0	NR	NR	М	20+	Pruned in past. Deadwood in crown. Inspection limited	No action required at the present time	B1	137	6.6
T139	Cypress	6.0	350	3.0	3.0	3.0	3.0	0.1	NR	NR	М	40+	No major defects	No action required at the present time	C1	55	4.2
T140	Cypress	3.0	150	1.0	1.0	1.0	1.0	0.5	NR	NR	SM	40+	No major defects	No action required at the present time	C1	10	1.8
T141	Cherry	5.0	200	2.0	2.0	3.0	2.0	2.0	NR	NR	M	-10	Extensive stem damage evident	Fell	U	18	2.4
T142	Cherry	5.0	200	2.0	1.0	1.0	1.0	1.0	NR	NR	М	-10	Extensive stem damage evident	Fell	U	18	2.4

No.	Species	Height (m)	Stem diam. (mm)	Cr	own Sp	pread (m)	Height of main canopy (m)	Height of first significant branch (m)	Direction of first significant branch	Age class	Estimated remaining contribution	Comments	Recommendations	Tree quality Assessment	RPA (m²)	RPR (m)
T143	Cherry	5.0	280	2.0	2.0	2.0	3.0	1.0	NR	NR	М	-10	Stem damage evident. Decay of stems evident	Fell	U	35	3.4
T144	Cherry	5.0	350	2.0	4.0	2.0	4.0	2.0	NR	NR	ОМ	-10	Extensive stem decay evident	Fell	U	55	4.2
T145	Cypress	5.0	250	2.0	1.0	1.0	2.0	0.1	NR	NR	М	20+	No major defects	No action required at the present time	C1	28	3.0
T146	Cypress	4.0	250	2.0	2.0	2.0	2.0	0.1	NR	NR	М	20+	No major defects	No action required at the present time	C1	28	3.0
T147	Cypress	7.0	450	2.0	2.0	2.0	2.0	0.1	NR	NR	М	20+	No major defects	No action required at the present time	C1	92	5.4
G1	Mixed	4.0	100	NR	NR	NR	NR	0.1	NR	NR	SM	20+	Species includes Field Maple, Oak and Sycamore	No action required at the present time	C2	5	1.2
G2	Hawthorn	6.0	250	NR	NR	NR	NR	0.1	NR	NR	М	10+	No major defects	No action required at the present time	C2	28	3.0
G3	Hawthorn	6.0	350	NR	NR	NR	NR	0.1	NR	NR	ОМ	10+	Over mature remnant hedgerow trees	No action required at the present time	C2	55	4.2
G4	Mixed	8.0	350	NR	NR	NR	NR	0.1	NR	NR	М	20+	Multiple specimens on bankside	No action required at the present time	C2	55	4.2
G5	Mixed	16.0	700	NR	NR	NR	NR	0.1	NR	NR	М	20+	Species includes Hawthorn, Willow and Wych Elm. Large mature Willow specimens in group	No action required at the present time	C2	222	8.4
G6	Mixed	12.0	350	NR	NR	NR	NR	0.1	NR	NR	M	40+	Garden specimens. Not accessed. Species includes Ash, Cherry, Cypress, Elder, Eucalyptus and Scots Pine	No action required at the present time	C2	55	4.2

No.	Species	Height (m)	Stem diam. (mm)	Cr	own Sp	pread (m)	Height of main canopy (m)	Height of first significant branch (m)	Direction of first significant branch	Age	Estimated remaining contribution	Comments	Recommendations	Tree quality Assessment	RPA (m²)	RPR (m)
G7	Mixed	14.0	300	NR	NR	NR	NR	0.1	NR	NR	EM	40+	Species in gardens and bankside. Species include Blue Atlas Cedar and Cypress	No action required at the present time	C2	41	3.6
G8	Mixed	12.0	300	NR	NR	NR	NR	0.1	NR	NR	EM	40+	Bankside trees. Species includes Ash, Hawthorn and Sycamore	No action required at the present time	C2	41	3.6
G9	Mixed	14.0	500	NR	NR	NR	NR	0.1	NR	NR	М	10+	Sparse bankside trees and vegetation. Species includes Ash, Hawthorn, Sycamore, Crack Willow and Goat Willow	No action required at the present time	C2	113	6.0
G10	Mixed	6.0	350	NR	NR	NR	NR	0.1	NR	NR	М	10+	Gappy group. Species includes Ash, Elder, Hawthorn and Wych Elm	No action required at the present time	C2	55	4.2
G11	Mixed	10.0	320	NR	NR	NR	NR	0.1	NR	NR	EM	40+	Remnant Hawthorn species with trees. Species includes Ash, Holly and Oak	No action required at the present time	C2	46	3.8
G12	Mixed	20.0	450	NR	NR	NR	NR	0.1	NR	NR	М	20+	Over mature decayed and dying specimens in group. Species includes Ash, Beech, Hawthorn, Goat Willow, Lime, Poplar, Rowan and Sycamore	No action required at the present time	C2	92	5.4
G13	Mixed	16.0	400	NR	NR	NR	NR	0.1	NR	NR	EM	20+	Species includes Alder, Ash, Bird Cherry and Sycamore	No action required at the present time	C2	72	4.8
G14	Mixed	20.0	800	NR	NR	NR	NR	0.1	NR	NR	М	20+	Species includes Ash, Hawthorn, Sycamore and Willow	No action required at the present time	C2	290	9.6

		Height	Stem diam.		own Sr			Height of main canopy (m)	Height of first significant branch (m)	Direction of first significant branch	Age	Estimated remaining contribution			Tree quality Assessment	RPA	RPR
No.	Species	(m)	(mm)	N	E	S	W				class		Comments	No action required		(m ²)	(m)
G15	Mixed	14.0	700	NR	NR	NR	NR	0.1	NR	NR	EM	40+	Bankside trees	at the present time	C2	222	8.4
G16	Mixed	20.0	800	NR	NR	NR	NR	0.1	NR	NR	M	40+	Located in rear gardens of private properties. Large mature specimens in group. Not surveyed in detail	No comments	В2	290	9.6
G17	Mixed	2.0	150	NR	NR	NR	NR	0.1	NR	NR	EM	10+	Garden group. Species includes Holly, Silver Birch and ornamentals	No action required at the present time	C2	10	1.8
G18	Mixed	18.0	800	NR	NR	NR	NR	0.1	NR	NR	EM	40+	Woodland. Species includes Alder, Ash, Crack Willow, Cypress, Dogwood, Elder, Larch, Sitka Spruce and Sycamore	Bring woodland into formal management	B2	290	9.6
G19	Mixed	14.0	500	NR	NR	NR	NR	0.1	NR	NR	М	10+	Surveyed from distance. Boundary trees. Not inspected in detail	No comments	C2	113	6.0
G20	Mixed	14.0	450	NR	NR	NR	NR	0.1	NR	NR	М	10+	No access. Not inspected in detail. Sparse trees with remnant hedgerow species	No comments	C2	92	5.4
G21	Mixed	8.0	250	NR	NR	NR	NR	0.1	NR	NR	EM	20+	Roadside trees. Remnant hedgerow species. Species includes Hawthorn, Oak and Sycamore	No action required at the present time	C2	28	3.0
G22	Mixed	8.0	250	NR	NR	NR	NR	0.1	NR	NR	М	20+	Roadside trees. Remnant hedgerow species. Species includes Ash, Hawthorn and	No action required at the present time	C2	28	3.0

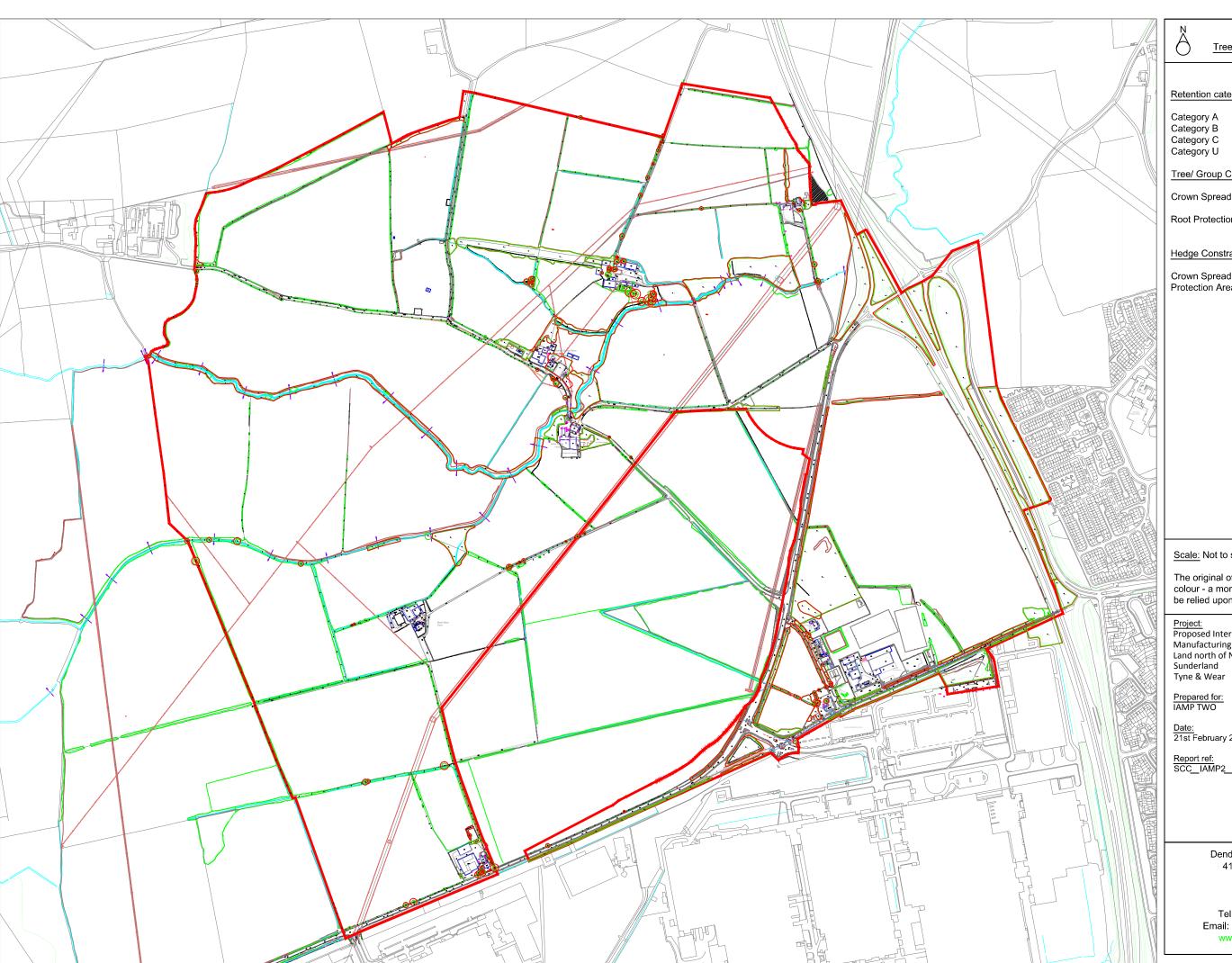
				Cr	own Sp	pread (m)	nopy (m)	nificant)	irst anch		aining			Assessment		
No.	Species	Height (m)	Stem diam. (mm)	N	E	S	W	Height of main canopy (m)	Height of first significant branch (m)	Direction of first significant branch	Age class	Estimated remaining contribution	Comments	Recommendations	Tree quality Asse	RPA (m²)	RPR (m)
<u> </u>													Oak				
G23	Hawthorn	4.0	250	NR	NR	NR	NR	0.1	NR	NR	М	20+	Self sown Hawthorn	No action required at the present time	C2	28	3.0
G24	Sycamore	12.0	350	NR	NR	NR	NR	0.1	NR	NR	EM	40+	Multiple stems from base	No action required at the present time	C2	55	4.2
G25	Mixed	12.0	400	NR	NR	NR	NR	0.1	NR	NR	М	40+	Species includes Ash, Cypress, Hawthorn, Silver Birch and Sycamore	No action required at the present time	B2	72	4.8
G26	Mixed	10.0	450	NR	NR	NR	NR	0.1	NR	NR	М	20+	Species includes Ash, Hawthorn, Prunus, Silver Birch, Willow and Wych Elm	No action required at the present time	C2	92	5.4
G27	Mixed	8.0	400	NR	NR	NR	NR	0.1	NR	NR	М	20+	Species includes Hawthorn, Hazel, Pizzard's Plum and Wych Elm	No action required at the present time	B2	72	4.8
G28	Mixed	6.0	300	NR	NR	NR	NR	0.1	NR	NR	М	10+	Remnant hedgerow species with trees. Species includes Ash, Blackthorn and Hawthorn	No action required at the present time	C2	41	3.6
G29	Mixed	8.0	150	NR	NR	NR	NR	0.1	NR	NR	EM	20+	Species includes English Elm, Hawthorn and Wych Elm	No action required at the present time	C2	10	1.8
G30	Mixed	14.0	500	NR	NR	NR	NR	0.1	NR	NR	EM	40+	Located in enclosed area	No comments	B2	113	6.0
G31	Mixed	14.0	400	NR	NR	NR	NR	0.1	NR	NR	EM	40+	Species includes Cherry, Elder, hawthorn, Norway Maple, Silver Birch and Sycamore	No action required at the present time	В2	72	4.8

				Cr	own Sp	oread (m)	(m) kdou	nificant)	irst inch		remaining bution			ssment		
No.	Species	Height (m)	Stem diam. (mm)	N	E	S	w	Height of main canopy (m)	Height of first significant branch (m)	Direction of first significant branch	Age class	Estimated remain contribution	Comments	Recommendations	Tree quality Assessment	RPA (m²)	RPR (m)
G32	Mixed	16.0	600	NR	NR	NR	NR	0.1	NR	NR	М	20+	Trees located around car park of private property. Survey limited. Species includes Sycamore and Willow	No comments	В2	163	7.2
G33	Mixed	14.0	500	NR	NR	NR	NR	0.1	NR	NR	М	40+	Species includes Ash and Hawthorn	No action required at the present time	C2	113	6.0
G34	Goat Willow	8.0	150	NR	NR	NR	NR	0.1	NR	NR	SM	40+	Wetland area. Goat Willow dominant. Additional species includes English Elm and Hawthorn	No action required at the present time	C2	10	1.8
G35	Mixed	14.0	250	NR	NR	NR	NR	0.1	NR	NR	SM	40+	Species includes Ash, Blackthorn, Poplar, Hawthorn, Scots Pine, Larch and Silver Birch	No action required at the present time	B2	28	3.0
G36	Mixed	14.0	300	NR	NR	NR	NR	0.1	NR	NR	EM	40+	Shelterbelt woodland situated around A19. Areas not inspected in detail. Species includes Ash, Scots Pine, Willow, Hawthorn	Survey woodland areas in detail	В2	41	3.6
G37	Mixed	12.0	250	NR	NR	NR	NR	0.1	NR	NR	SM	40+	Stem damage to roadside specimens evident. Species includes Cherry, Hawthorn, Ash, Elm and Field Maple	No action required at the present time	В2	28	3.0

				Cr	Crown Spread (m)				nificant)	of first branch		remaining bution			Assessment		
No.	Species	Height (m)	Stem diam. (mm)	N	Е	S	w	Height of main canopy (m)	Height of first significant branch (m)	Direction of first significant branch	Age class	Estimated remain contribution	Comments	Recommendations	Tree quality Asse	RPA	RPR (m)
G38	Mixed	12.0	350	NR	NR	NR	NR	0.1	NR	NR	EM	40+	Waterlogged area. Species includes Alder, Field Maple and Poplar. Dead/dying specimens near roadside	Remove dead and dying trees	C2	55	4.2
G39	Mixed	10.0	300	NR	NR	NR	NR	0.1	NR	NR	EM	20+	Species includes Crack Willow, English Elm, Field Maple and Holly. Dieback of x1 Willow overhanging car park	Remove Willow overhanging car park	C2	41	3.6
G40	Mixed	16.0	450	NR	NR	NR	NR	0.1	NR	NR	M	20+	Species includes Ash, Crack Willow, Hawthorn, Sycamore. Declined specimens in group but located in neighbouring property	Specimens which require removal are situated on private property	C2	92	5.4
G41	Mixed	16.0	300	NR	NR	NR	NR	0.1	NR	NR	EM	40+	Shelterbelt woodland. Specimens in group with tall, narrow form. Species includes Alder, Goat Willow, Gorse and Sycamore	No action required at the present time	C2	41	3.6
G42	Mixed	16.0	400	NR	NR	NR	NR	0.1	NR	NR	EM	40+	Shelterbelt woodland adjacent to road. Species includes Ash, Elder, Holly, Hawthorn, Oak and Sycamore. Stem damage to specimens evident. Small dead/dying specimens in group. X1 Ash with dieback of crown	Tidy group. Remove Ash and additional dead/dying specimens	В2	72	4.8

				Cr	own Sp	oread (m)	canopy (m)	significant (m)	of first branch		remaining oution			ssment		
No.	Species	Height (m)	Stem diam. (mm)	N	E	S	w	Height of main car	Height of first sign branch (m)	Direction of first significant branch	Age class	Estimated remai	Comments	Recommendations	Tree quality Asses	RPA (m²)	RPR (m)
G43	Mixed	10.0	250	NR	NR	NR	NR	0.1	NR	NR	EM	40+	Species includes Field Maple, Elm and Hawthorn	No action required at the present time	C2	28	3.0
G44	Mixed	8.0	150	NR	NR	NR	NR	0.1	NR	NR	EM	40+	Mainly low level scrub. Species includes Ash, Gorse, Sycamore, Hawthorn and Willow	No action required at the present time	C2	10	1.8
G45	Mixed	12.0	450	NR	NR	NR	NR	0.1	NR	NR	М	20+	Species includes Cherry, Elder and Willow	No action required at the present time	C2	92	5.4
G46	Mixed	4.0	150	NR	NR	NR	NR	0.1	NR	NR	М	10+	Species includes Elder and Privet. No major defects	No action required at the present time	C2	10	1.8
G47	Mixed	5.0	150	NR	NR	NR	NR	0.1	NR	NR	М	40+	Species includes Elder and Privet	No action required at the present time	C2	10	1.8

Report end





Appendix 1 Tree Constraints Plan

<u>KEY</u>

Retention category

Tree/ Group Constraints

Crown Spread

Root Protection Area

Hedge Constraints

Crown Spread & Root Protection Area

Scale: Not to scale

The original of this plan was produced in colour - a monochrome copy should not be relied upon

Project:
Proposed International Advanced
Manufacturing Park (IAMP TWO)
Land north of Nissan
Sunderland
Tyne & Wear

Prepared for: IAMP TWO

<u>Date:</u> 21st February 2019

Report ref: SCC_IAMP2_PD1.3

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