



SURREY

Surrey Waste Local Plan 2018-2033

Appendix B to the Habitat Regulations Assessment Report

**Assessment of Air Quality Impacts & Summary of
Key Recommendations for the Proposed Site
Allocations & the Identified ILAS located within 10
kilometres of one or more SPAs or SACs**

Draft for Consultation

January 2019

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Schedule of Allocated Sites & Industrial Land Areas of Search (ILAS)

Strategic Sites (Surrey Waste Local Plan, Policy 11a)

Site 1	Oakleaf Farm, Horton Road, Stanwell Moor	SBC
Site 2	Former Weylands Treatment Works, Lyon Road, Walton on Thames	EBC
Site 3	Land north east of Slyfield Industrial Estate, Moorfield Road & Westfield Road, Guildford	GBC
Site 4	Land west of Leatherhead Sewage Treatment Works, Randalls Road, Leatherhead	MBDC
Site 5	Land west of Lambs Business Park, Terracotta Road, Tilburstow Hill Road, South Godstone	TDC

Site for Household Waste Materials Recycling Facility (Surrey Waste Local Plan, Policy 11b)

Site 6	Land at Trumps Farm, Kitsmead Lane, Longcross	RBC
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Industrial Land Areas of Search (Surrey Waste Local Plan, Policy 10)

ILAS01	Brooklands Industrial Park, Weybridge; Wintersells Road Industrial Park, Weybridge; & Byfleet Industrial Estate, Byfleet Road / Oyster Lane, Woking	EBC
ILAS02	Hersham Trading Estate, Lyon Road, Walton on Thames	EBC
ILAS03	Molesey Industrial Estate, Central Avenue, West Molesey	EBC
ILAS04	Longmead Industrial Estate, Longmead Road, Epsom	EEBC
ILAS05	Slyfield Industrial Estate, Moorfield Road & Westfield Road, Guildford	GBC
ILAS06	Woodbridge Meadows Industrial Estate, Guildford	GBC
ILAS07	Land north & south of Lysons Avenue, Ash Vale	GBC
ILAS08	Riverwey Industrial Estate, Astolat Business Park & Weyvern Park, Old Portsmouth Road, Peasmarsh	GBC
ILAS09	Land at Burnt Common Warehouse, London Road, Send	GBC
ILAS10	Land near Dorking West Station, Curtis Road / Station Road, Dorking	MVDC
ILAS11	Holmethorpe Industrial Estate, Redhill	RBBC
ILAS12	Perrywood Business Park, Honeycrock Lane, Salfords	RBBC
ILAS13	Salfords Industrial Estate, Brighton Road / Bonehurst Road, Salfords	RBBC
ILAS14	Thorpe Industrial Estate, Ten Acre Lane, Egham	RBC
ILAS15	Byfleet Road, Employment Allocation, New Haw, Byfleet	RBC
ILAS16	Windmill Road Industrial Area, Sunbury-on-Thames	SBC
ILAS17	York Town Industrial Estate, Doman Road / Stanhope Road, Camberley	SHBC
ILAS18	Hobbs Industrial Estate, Felbridge	TDC
ILAS19	Land at Dunsfold Aerodrome, Stovolds Hill, Cranleigh	WaBC
ILAS20	Coxbridge Business Park, Alton Road, Farnham	WaBC
ILAS21	Farnham Trading Estate (incl. land north of Water Lane), Water Lane, Farnham	WaBC
ILAS22	Monument Way East Industrial Estate, Woking	WoBC

Part B-1: Summary of findings & recommended thermal treatment decision rules for allocated sites & identified ILAS

Strategic Sites (Surrey Waste Local Plan, Policy 11a)	At Risk SPAs & SACs		Decision Rules
<p>Site 1: Oakleaf Farm, Horton Road, Stanwell Moor</p>	<p>Windsor Forest & Great Park SAC 5.9 km west of Site 1</p> <p><50,000 tpa Thermal Treatment Facility</p> <p>>50,000 tpa Thermal Treatment Facility</p>	<p><1% CL</p> <p>>1%CL & <10% CL</p>	<p>Site 1 (Oakleaf Farm, Stanwell Moor) is less suited to the development of a large scale thermal treatment facility (i.e. a capacity of greater than 50,000 tpa) unless it can be demonstrated through project level Appropriate Assessment that:</p> <p>1) Such a facility would give rise to emissions at a concentration no greater than 1% of the minimum site relevant critical load for nutrient nitrogen deposition for the most sensitive habitat within the Windsor Forest & Great Park SAC; or</p> <p>2) If emissions were expected to exceed the 1% threshold that there would be no significant adverse impacts on the ecological integrity of the Windsor Forest & Great Park SAC.</p> <p>A small scale thermal treatment facility (i.e. with a capacity of less than 50,000 tpa) may be acceptable at Site 1 with reference to the potential for adverse impacts on the integrity of the Windsor Forest & Great Park SAC.</p>
<p>Site 2: Former Weylands Treatment Works, Lyon Road, Walton on Thames</p>	<p>Thames Basin Heaths SPA 7.1 km south west of Site 2</p> <p><50,000 tpa Thermal Treatment Facility</p> <p>>50,000 tpa Thermal Treatment Facility</p> <p>Wimbledon Common SAC 9.9 km north east of Site 2</p> <p><50,000 tpa Thermal Treatment Facility</p> <p>>50,000 tpa Thermal Treatment Facility</p>	<p>>1%CL & <10% CL</p> <p>>10% <20% CL</p> <p><1% CL</p> <p>>1%CL & <10% CL</p>	<p>Site 2 (Weylands TW, Walton on Thames) is less suited to the development of a large scale thermal treatment facility (i.e. a capacity of greater than 50,000 tpa) unless it can be demonstrated through project level Appropriate Assessment that:</p> <p>1) Such a facility would give rise to emissions at a concentration no greater than 1% of the minimum site relevant critical load for nutrient nitrogen deposition for the most sensitive habitats within the Thames Basin Heaths SPA and the Wimbledon Common SAC; or</p> <p>2) If emissions were expected to exceed the 1% threshold that there would be no significant adverse impacts on the ecological integrity of the Thames Basin Heaths SPA and the Wimbledon Common SAC.</p> <p>A small scale thermal treatment facility (i.e. with a capacity of less than 50,000 tpa) may be acceptable at Site 2 with reference to the potential for adverse impacts on the integrity of the Thames Basin Heaths SPA and the Wimbledon Common SAC.</p>
<p>Site 3: Land north east of Slyfield Industrial Estate, Moorfield Road & Westfield Road, Guildford</p>	<p>Thames Basin Heaths SPA Closest SSSI is 1.2 km north west of Site 3</p> <p><50,000 tpa Thermal Treatment Facility</p> <p>>50,000 tpa Thermal Treatment Facility</p> <p>Thursley, Ash, Pirbright & Chobham SAC Closest SSSI is 4.7 km north west of Site 3</p> <p><50,000 tpa Thermal Treatment Facility</p> <p>>50,000 tpa Thermal Treatment Facility</p>	<p>>10% <20% CL</p> <p>>20% CL</p> <p>>1%CL & <10% CL</p> <p>>1%CL & <10% CL</p>	<p>Site 3 (Land NE of Slyfield IE, Guildford) is unsuited to the development of large scale thermal treatment facilities, and is less suited to the development of small scale thermal treatment facilities unless it can be demonstrated through project level Appropriate Assessment that:</p> <p>1) Such a facility would give rise to emissions at a concentration no greater than 1% of the minimum site relevant critical load for nutrient nitrogen deposition for the most sensitive habitats within the Thames Basin Heaths SPA and the Thursley, Ash, Pirbright & Chobham SAC; or</p> <p>2) If emissions were expected to exceed the 1% threshold that there would be no significant adverse impacts on the ecological integrity of the Thames Basin Heaths SPA and the Thursley, Ash, Pirbright & Chobham SAC.</p>
<p>Site 4: Land west of Leatherhead Sewage Treatment Works, Randalls Road, Leatherhead</p>	<p>Mole Gap to Reigate Escarpment SAC 2.9 km south of Site 4</p> <p><50,000 tpa Thermal Treatment Facility</p> <p>>50,000 tpa Thermal Treatment Facility</p> <p>Thames Basin Heaths SPA Closest SSSI is 5.5 km north west of Site 4</p> <p><50,000 tpa Thermal Treatment Facility</p> <p>>50,000 tpa Thermal Treatment Facility</p>	<p>>1%CL & <10% CL</p> <p>>10% <20% CL</p> <p>>1%CL & <10% CL</p> <p>>1%CL & <10% CL</p>	<p>Site 4 (Land W of Leatherhead STW, Leatherhead) is less suited to the development of all scales of thermal treatment facility unless it can be demonstrated through project level Appropriate Assessment that:</p> <p>1) Such a facility would give rise to emissions at a concentration no greater than 1% of the minimum site relevant critical load for nutrient nitrogen deposition for the most sensitive habitats within the Mole Gap to Reigate Escarpment SAC and the Thames Basin Heaths SPA; or</p> <p>2) If emissions were expected to exceed the 1% threshold that there would be no significant adverse impacts on the ecological integrity of the Mole Gap to Reigate Escarpment SAC and the Thames Basin Heaths SPA.</p>

Strategic Sites (Surrey Waste Local Plan, Policy 11a)	At Risk SPAs & SACs	Decision Rules	
Site 5: Land west of Lambs Business Park, Terracotta Road, Tilburstow Hill Road, South Godstone	Mole Gap to Reigate Escarpment SAC	<p>Site 5 (Lambs BP, South Godstone) is less suited to the development of a large scale thermal treatment facility (i.e. a capacity of greater than 50,000 tpa) unless it can be demonstrated through project level Appropriate Assessment that:</p> <p>1) Such a facility would give rise to emissions at a concentration no greater than 1% of the minimum site relevant critical load for nutrient nitrogen deposition for the most sensitive habitats within the Mole Gap to Reigate Escarpment SAC; or</p> <p>2) If emissions were expected to exceed the 1% threshold that there would be no significant adverse impacts on the ecological integrity of the Mole Gap to Reigate Escarpment SAC.</p> <p>A small scale thermal treatment facility (i.e. with a capacity of less than 50,000 tpa) may be acceptable at Site 5 with reference to the potential for adverse impacts on the integrity of the Mole Gap to Reigate Escarpment SAC.</p>	
	8.4 km northwest of Site 5		
	<50,000 tpa Thermal Treatment Facility		<1% CL
>50,000 tpa Thermal Treatment Facility	>1%CL & <10% CL		

ILAS (Surrey Waste Local Plan, Policy 10)	At Risk SPAs & SACs	Decision Rules for Small Scale (<50,000 tpa) Thermal Treatment Facilities	
ILAS01: Brooklands IE et al, Byfleet	Thames Basin Heaths SPA [closest SSSI is 2.3 km south east of ILAS01]	>10% <20% CL	<p>ILAS01 is less suited to the development of all scales of thermal treatment facility, including small scale plants, unless it can be demonstrated through project level Appropriate Assessment that:</p> <p>1) Such a facility would give rise to emissions at a concentration no greater than 1% of the minimum site relevant critical load for nutrient nitrogen deposition for the most sensitive habitats within the Thames Basin Heaths SPA and the Thursley, Ash, Pirbright & Chobham SAC; or</p> <p>2) If emissions were expected to exceed the 1% threshold that there would be no significant adverse impacts on the ecological integrity of the Thames Basin Heaths SPA and the Thursley, Ash, Pirbright & Chobham SAC.</p>
	Thursley, Ash, Pirbright & Chobham SAC [closest SSSI is 6.1 km north west of ILAS01]	>1%CL & <10% CL	
ILAS02: Hershaw TE, Walton on Thames	Thames Basin Heaths SPA [closest SSSI is 6.9 km south west of ILAS02]	>1%CL & <10% CL	<p>ILAS02 is less suited to the development of all scales of thermal treatment facility, including small scale plants, unless it can be demonstrated through project level Appropriate Assessment that:</p> <p>1) Such a facility would give rise to emissions at a concentration no greater than 1% of the minimum site relevant critical load for nutrient nitrogen deposition for the most sensitive habitats within the Thames Basin Heaths SPA and the Thursley, Ash, Pirbright & Chobham SAC; or</p> <p>2) If emissions were expected to exceed the 1% threshold that there would be no significant adverse impacts on the ecological integrity of the Thames Basin Heaths SPA and the Thursley, Ash, Pirbright & Chobham SAC.</p>
ILAS03: Molesey IE, West Molesey	Thames Basin Heaths SPA [closest SSSI is 9.6 km south west of ILAS03]	>1%CL & <10% CL	<p>ILAS03 is less suited to the development of all scales of thermal treatment facility, including small scale plants, unless it can be demonstrated through project level Appropriate Assessment that:</p> <p>1) Such a facility would give rise to emissions at a concentration no greater than 1% of the minimum site relevant critical load for nutrient nitrogen deposition for the most sensitive habitats within the Thames Basin Heaths SPA and the Wimbledon Common SAC; or</p> <p>2) If emissions were expected to exceed the 1% threshold that there would be no significant adverse impacts on the ecological integrity of the Thames Basin Heaths SPA and the Wimbledon Common SAC.</p>
	Wimbledon Common SAC [8.9 km north east of ILAS03]	<1% CL	
ILAS04: Longmead IE, Epsom	Mole Gap to Reigate Escarpment SAC [7.3 km south of ILAS04]	<1% CL	<p>A small scale thermal treatment facility (i.e. <50,000 tpa) may be acceptable at ILAS04 with reference to the potential for adverse impacts on the integrity of the Mole Gap to Reigate Escarpment SAC and the Wimbledon Common SAC, subject to it being concluded through project level appropriate that no significant adverse impacts on the ecological integrity of the SACs would arise from the scheme alone or in-combination with other development.</p>
	Wimbledon Common SAC [8.5 km north of ILAS04]	<1% CL	

ILAS (Surrey Waste Local Plan, Policy 10)	At Risk SPAs & SACs		Decision Rules for Small Scale (<50,000 tpa) Thermal Treatment Facilities
ILAS05: Slyfield IE, Guildford	Thames Basin Heaths SPA [closest SSSI is 0.8 km north west of ILAS05]	>20% CL	ILAS05 is unsuited to the development of all scales of thermal treatment facility, including small scale plants, unless it can be demonstrated through project level Appropriate Assessment that: 1) Such a facility would give rise to emissions at a concentration no greater than 1% of the minimum site relevant critical load for nutrient nitrogen deposition for the most sensitive habitats within the Thames Basin Heaths SPA and the Thursley, Ash, Pirbright & Chobham SAC; or 2) If emissions were expected to exceed the 1% threshold that there would be no significant adverse impacts on the ecological integrity of the Thames Basin Heaths SPA and the Thursley, Ash, Pirbright & Chobham SAC.
	Thursley, Ash, Pirbright & Chobham SAC [closest SSSI is 4.2 km north west of ILAS05]	>1%CL & <10% CL	
ILAS06: Woodbridge Meadows IE, Guildford	Thames Basin Heaths SPA [closest SSSI is 2.2 km north of ILAS06]	>10% <20% CL	ILAS06 is less suited to the development of all scales of thermal treatment facility, including small scale plants, unless it can be demonstrated through project level Appropriate Assessment that: 1) Such a facility would give rise to emissions at a concentration no greater than 1% of the minimum site relevant critical load for nutrient nitrogen deposition for the most sensitive habitats within the Thames Basin Heaths SPA, the Thursley, Ash, Pirbright & Chobham SAC and the Thursley, Hankley & Frensham Commons (Wealden Heaths Phase 1) SPA; or 2) If emissions were expected to exceed the 1% threshold that there would be no significant adverse impacts on the ecological integrity of the Thames Basin Heaths SPA, the Thursley, Ash, Pirbright & Chobham SAC and the Thursley, Hankley & Frensham Commons (Wealden Heaths Phase 1) SPA.
	Thursley, Ash, Pirbright & Chobham SAC [closest SSSI is 4.7 km north west of ILAS06]	>1%CL & <10% CL	
	Thursley, Hankley & Frensham Commons (WHP1) SPA [9.7 km south west of ILAS06]	>1%CL & <10% CL	
ILAS07: Land N&S of Lysons Avenue, Ash Vale	Thames Basin Heaths SPA [closest SSSI is 0.4 km east of ILAS07]	>20% CL	ILAS07 is unsuited to the development of all scales of thermal treatment facility, including small scale plants, unless it can be demonstrated through project level Appropriate Assessment that: 1) Such a facility would give rise to emissions at a concentration no greater than 1% of the minimum site relevant critical load for nutrient nitrogen deposition for the most sensitive habitats within the Thames Basin Heaths SPA, the Thursley, Ash, Pirbright & Chobham SAC and the Thursley, Hankley & Frensham Commons (Wealden Heaths Phase 1) SPA; or 2) If emissions were expected to exceed the 1% threshold that there would be no significant adverse impacts on the ecological integrity of the Thames Basin Heaths SPA, the Thursley, Ash, Pirbright & Chobham SAC and the Thursley, Hankley & Frensham Commons (Wealden Heaths Phase 1) SPA.
	Thursley, Ash, Pirbright & Chobham SAC [closest SSSI is 0.4 km east of ILAS07]	>10% <20% CL	
	Thursley, Hankley & Frensham Commons (WHP1) SPA [9.7 km south of ILAS07]	>1%CL & <10% CL	
ILAS08: Riverwey IE et al, Peasmarsh	Thames Basin Heaths SPA [closest SSSI is 6.8 km north of ILAS08]	>1%CL & <10% CL	ILAS08 is less suited to the development of all scales of thermal treatment facility, including small scale plants, unless it can be demonstrated through project level Appropriate Assessment that: 1) Such a facility would give rise to emissions at a concentration no greater than 1% of the minimum site relevant critical load for nutrient nitrogen deposition for the most sensitive habitats within the Thames Basin Heaths SPA, the Thursley, Ash, Pirbright & Chobham SAC and the Thursley, Hankley & Frensham Commons (Wealden Heaths Phase 1) SPA; or 2) If emissions were expected to exceed the 1% threshold that there would be no significant adverse impacts on the ecological integrity of the Thames Basin Heaths SPA, the Thursley, Ash, Pirbright & Chobham SAC and the Thursley, Hankley & Frensham Commons (Wealden Heaths Phase 1) SPA.
	Thursley, Ash, Pirbright & Chobham SAC [closest SSSI is 6.6 km south west of ILAS08]	>1%CL & <10% CL	
	Thursley, Hankley & Frensham Commons (WHP1) SPA [6.6 km south west of ILAS08]	>1%CL & <10% CL	
ILAS09: Land at Burntcommon Warehouse, Send	Thames Basin Heaths SPA [closest SSSI is 3.6 km west of ILAS09]	>1%CL & <10% CL	ILAS09 is less suited to the development of all scales of thermal treatment facility, including small scale plants, unless it can be demonstrated through project level Appropriate Assessment that: 1) Such a facility would give rise to emissions at a concentration no greater than 1% of the minimum site relevant critical load for nutrient nitrogen deposition for the most sensitive habitats within the Thames Basin Heaths SPA and the Thursley, Ash, Pirbright & Chobham SAC; or 2) If emissions were expected to exceed the 1% threshold that there would be no significant adverse impacts on the ecological integrity of the Thames Basin Heaths SPA and the Thursley, Ash, Pirbright & Chobham SAC.
	Thursley, Ash, Pirbright & Chobham SAC [closest SSSI is 7.4 km west of ILAS09]	<1% CL	

ILAS (Surrey Waste Local Plan, Policy 10)	At Risk SPAs & SACs	Decision Rules for Small Scale (<50,000 tpa) Thermal Treatment Facilities
ILAS10: Land at Dorking West Station, Dorking	Mole Gap to Reigate Escarpment SAC [1.7 km north east of ILAS10]	<div style="background-color: red; color: white; text-align: center; padding: 5px;">>10% CL</div> <p>ILAS10 is less suited to the development of all scales of thermal treatment facility, including small scale plants, unless it can be demonstrated through project level Appropriate Assessment that:</p> <ol style="list-style-type: none"> 1) Such a facility would give rise to emissions at a concentration no greater than 1% of the minimum site relevant critical load for nutrient nitrogen deposition for the most sensitive habitats within the Mole Gap to Reigate Escarpment SAC; or 2) If emissions were expected to exceed the 1% threshold that there would be no significant adverse impacts on the ecological integrity of the Mole Gap to Reigate Escarpment SAC.
ILAS11: Holmethorpe IE, Redhill	Mole Gap to Reigate Escarpment SAC [2.5 km west of ILAS11]	<div style="background-color: orange; color: black; text-align: center; padding: 5px;">>1%CL & <10% CL</div> <p>ILAS11 is less suited to the development of all scales of thermal treatment facility, including small scale plants, unless it can be demonstrated through project level Appropriate Assessment that:</p> <ol style="list-style-type: none"> 1) Such a facility would give rise to emissions at a concentration no greater than 1% of the minimum site relevant critical load for nutrient nitrogen deposition for the most sensitive habitats within the Mole Gap to Reigate Escarpment SAC; or 2) If emissions were expected to exceed the 1% threshold that there would be no significant adverse impacts on the ecological integrity of the Mole Gap to Reigate Escarpment SAC.
ILAS12: Perrywood BP, Salfords	Mole Gap to Reigate Escarpment SAC [5.9 km north west of ILAS12]	<div style="background-color: orange; color: black; text-align: center; padding: 5px;">>1%CL & <10% CL</div> <p>ILAS12 is less suited to the development of all scales of thermal treatment facility, including small scale plants, unless it can be demonstrated through project level Appropriate Assessment that:</p> <ol style="list-style-type: none"> 1) Such a facility would give rise to emissions at a concentration no greater than 1% of the minimum site relevant critical load for nutrient nitrogen deposition for the most sensitive habitats within the Mole Gap to Reigate Escarpment SAC; or 2) If emissions were expected to exceed the 1% threshold that there would be no significant adverse impacts on the ecological integrity of the Mole Gap to Reigate Escarpment SAC.
ILAS13: Salfords IE, Salfords	Mole Gap to Reigate Escarpment SAC [2.5 km west of ILAS11]	<div style="background-color: orange; color: black; text-align: center; padding: 5px;">>1%CL & <10% CL</div> <p>ILAS13 is less suited to the development of all scales of thermal treatment facility, including small scale plants, unless it can be demonstrated through project level Appropriate Assessment that:</p> <ol style="list-style-type: none"> 1) Such a facility would give rise to emissions at a concentration no greater than 1% of the minimum site relevant critical load for nutrient nitrogen deposition for the most sensitive habitats within the Mole Gap to Reigate Escarpment SAC; or 2) If emissions were expected to exceed the 1% threshold that there would be no significant adverse impacts on the ecological integrity of the Mole Gap to Reigate Escarpment SAC.
ILAS14: Thorpe IE, Thorpe	Thames Basin Heaths SPA [closest SSSI is 5.5 km south west of ILAS14]	<div style="background-color: orange; color: black; text-align: center; padding: 5px;">>1%CL & <10% CL</div> <p>ILAS03 is less suited to the development of all scales of thermal treatment facility, including small scale plants, unless it can be demonstrated through project level Appropriate Assessment that:</p>
	Windsor Forest & Great Park SAC [4.8 km west of ILAS14]	<div style="background-color: lightgreen; color: black; text-align: center; padding: 5px;"><1% CL</div> <ol style="list-style-type: none"> 1) Such a facility would give rise to emissions at a concentration no greater than 1% of the minimum site relevant critical load for nutrient nitrogen deposition for the most sensitive habitats within the Thames Basin Heaths SPA and the Windsor Forest & Great Park SAC; or 2) If emissions were expected to exceed the 1% threshold that there would be no significant adverse impacts on the ecological integrity of the Thames Basin Heaths SPA and the Windsor Forest & Great Park SAC.
ILAS15: Byfleet Road Employment Allocation, Byfleet	Thames Basin Heaths SPA [closest SSSI is 2.9 km south east of ILAS15]	<div style="background-color: orange; color: black; text-align: center; padding: 5px;">>1%CL & <10% CL</div> <p>ILAS15 is less suited to the development of all scales of thermal treatment facility, including small scale plants, unless it can be demonstrated through project level Appropriate Assessment that:</p> <ol style="list-style-type: none"> 1) Such a facility would give rise to emissions at a concentration no greater than 1% of the minimum site relevant critical load for nutrient nitrogen deposition for the most sensitive habitats within the Thames Basin Heaths SPA; or 2) If emissions were expected to exceed the 1% threshold that there would be no significant adverse impacts on the ecological integrity of the Thames Basin Heaths SPA.

ILAS (Surrey Waste Local Plan, Policy 10)	At Risk SPAs & SACs		Decision Rules for Small Scale (<50,000 tpa) Thermal Treatment Facilities
ILAS16: Windmill Road Industrial Area, Sunbury on Thames	Thames Basin Heaths SPA [closest SSSI is 9.8 km south of ILAS16]	>1%CL & <10% CL	ILAS16 is less suited to the development of all scales of thermal treatment facility, including small scale plants, unless it can be demonstrated through project level Appropriate Assessment that: 1) Such a facility would give rise to emissions at a concentration no greater than 1% of the minimum site relevant critical load for nutrient nitrogen deposition for the most sensitive habitats within the Thames Basin Heaths SPA; or 2) If emissions were expected to exceed the 1% threshold that there would be no significant adverse impacts on the ecological integrity of the Thames Basin Heaths SPA.
ILAS17: York Town IE, Camberley	Thames Basin Heaths SPA [closest SSSI is 0.6 km west of ILAS17] Thursley, Ash, Pirbright & Chobham SAC [closest SSSI is 4.5 km east of ILAS17]	>20% CL >1%CL & <10% CL	ILAS17 is unsuited to the development of all scales of thermal treatment facility, including small scale plants, unless it can be demonstrated through project level Appropriate Assessment that: 1) Such a facility would give rise to emissions at a concentration no greater than 1% of the minimum site relevant critical load for nutrient nitrogen deposition for the most sensitive habitats within the Thames Basin Heaths SPA and the Thursley, Ash, Pirbright & Chobham SAC; or 2) If emissions were expected to exceed the 1% threshold that there would be no significant adverse impacts on the ecological integrity of the Thames Basin Heaths SPA and the Thursley, Ash, Pirbright & Chobham SAC.
ILAS18: Hobbs IE, Felbridge	Ashdown Forest SAC [8.6 km south east of ILAS18]	<1% CL	A small scale thermal treatment facility (i.e. <50,000 tpa) may be acceptable at ILAS18 with reference to the potential for adverse impacts on the integrity of the Ashdown Forest SAC, subject to it being concluded through project level appropriate that no significant adverse impacts on the ecological integrity of the SAC would arise from the scheme alone or in-combination with other development.
ILAS19: Dunsfold Aerodrome, Cranleigh	Thursley, Ash, Pirbright & Chobham SAC [closest SSSI is 8.7 km north west of ILAS19] Thursley, Hankley & Frensham Commons (WHP1) SPA [8.7 km north west of ILAS19] Ebernoe Common SAC [8.8 km south west of ILAS19]	>1%CL & <10% CL >1%CL & <10% CL <1% CL	ILAS19 is less suited to the development of all scales of thermal treatment facility, including small scale plants, unless it can be demonstrated through project level Appropriate Assessment that: 1) Such a facility would give rise to emissions at a concentration no greater than 1% of the minimum site relevant critical load for nutrient nitrogen deposition for the most sensitive habitats within the Thursley, Ash, Pirbright & Chobham SAC, the Thursley, Hankley & Frensham Commons (Wealden Heaths Phase 1) SPA, and the Ebernoe Common SAC; or 2) If emissions were expected to exceed the 1% threshold that there would be no significant adverse impacts on the ecological integrity of the Thursley, Ash, Pirbright & Chobham SAC, the Thursley, Hankley & Frensham Commons (Wealden Heaths Phase 1) SPA, and the Ebernoe Common SAC.
ILAS20: Coxbridge BP, Farnham	Thames Basin Heaths SPA [closest SSSI is 3.2 km north of ILAS20] Thursley, Ash, Pirbright & Chobham SAC [closest SSSI is 4.8 km south east of ILAS20] Thursley, Hankley & Frensham Commons (WHP1) SPA [4.8 km south east of ILAS20] East Hampshire Hangers SAC [6.0 km south west of ILAS20] Shortheath Common SAC [9.4 km south west of ILAS20]	>1%CL & <10% CL >1%CL & <10% CL >1%CL & <10% CL >1%CL & <10% CL <1% CL	ILAS20 is less suited to the development of all scales of thermal treatment facility, including small scale plants, unless it can be demonstrated through project level Appropriate Assessment that: 1) Such a facility would give rise to emissions at a concentration no greater than 1% of the minimum site relevant critical load for nutrient nitrogen deposition for the most sensitive habitats within the Thames Basin Heaths SPA, the Thursley, Ash, Pirbright & Chobham SAC, the Thursley, Hankley & Frensham Commons (Wealden Heaths Phase 1) SPA, the East Hampshire Hangers SAC, and the Shortheath Common SAC; or 2) If emissions were expected to exceed the 1% threshold that there would be no significant adverse impacts on the ecological integrity of the Thames Basin Heaths SPA, the Thursley, Ash, Pirbright & Chobham SAC, the Thursley, Hankley & Frensham Commons (Wealden Heaths Phase 1) SPA, the East Hampshire Hangers SAC, and the Shortheath Common SAC.

ILAS (Surrey Waste Local Plan, Policy 10)	At Risk SPAs & SACs		Decision Rules for Small Scale (<50,000 tpa) Thermal Treatment Facilities
ILAS21: Farnham TE, Farnham	Thames Basin Heaths SPA [closest SSSI is 2.1 km north west of ILAS21]	>10% <20% CL	<p>ILAS21 is less suited to the development of all scales of thermal treatment facility, including small scale plants, unless it can be demonstrated through project level Appropriate Assessment that:</p> <p>1) Such a facility would give rise to emissions at a concentration no greater than 1% of the minimum site relevant critical load for nutrient nitrogen deposition for the most sensitive habitats within the Thames Basin Heaths SPA, the Thursley, Ash, Pirbright & Chobham SAC, the Thursley, Hankley & Frensham Commons (Wealden Heaths Phase 1) SPA, and the East Hampshire Hangers SAC; or</p> <p>2) If emissions were expected to exceed the 1% threshold that there would be no significant adverse impacts on the ecological integrity of the Thames Basin Heaths SPA, the Thursley, Ash, Pirbright & Chobham SAC, the Thursley, Hankley & Frensham Commons (Wealden Heaths Phase 1) SPA, and the East Hampshire Hangers SAC.</p>
	Thursley, Ash, Pirbright & Chobham SAC [closest SSSI is 5.0 km south of ILAS21]	>1%CL & <10% CL	
	Thursley, Hankley & Frensham Commons (WHP1) SPA [5.0 km south of ILAS21]	>1%CL & <10% CL	
	East Hampshire Hangers SAC [9.5 km south west of ILAS21]	<1% CL	
ILAS22: Monument Way East IE, Woking	Thames Basin Heaths SPA [closest SSSI is 0.7 km north of ILAS22]	>20% CL	<p>ILAS22 is unsuited to the development of all scales of thermal treatment facility, including small scale plants, unless it can be demonstrated through project level Appropriate Assessment that:</p> <p>1) Such a facility would give rise to emissions at a concentration no greater than 1% of the minimum site relevant critical load for nutrient nitrogen deposition for the most sensitive habitats within the Thames Basin Heaths SPA, the Thursley, Ash, Pirbright & Chobham SAC and the Windsor Forest & Great Park SAC; or</p> <p>2) If emissions were expected to exceed the 1% threshold that there would be no significant adverse impacts on the ecological integrity of the Thames Basin Heaths SPA, the Thursley, Ash, Pirbright & Chobham SAC and the Windsor Forest & Great Park SAC.</p>
	Thursley, Ash, Pirbright & Chobham SAC [closest SSSI is 4.1 km north west of ILAS22]	>1%CL & <10% CL	
	Windsor Forest & Great Park SAC [9.9 km north west of ILAS22]	<1% CL	

Part B-2: Ashdown Forest SAC

Qualifying Features	Sensitive to N deposition	Relevant N CL class	Empirical Critical Load (CL) (kg N ha yr)	Exceedance impacts
European dry heaths (H4030)	Yes	Dry heaths	10-20	Transition from heather to grass dominance, decline in lichens, changes in plant biochemistry, increased sensitivity to abiotic stress.
Northern Atlantic wet heaths with <i>Erica tetralix</i> (H4010)	Yes	Northern wet heath: <i>Erica tetralix</i> dominated wet heath	10-20	Transition heather to grass. Ericaceous species susceptible to frost and drought.

ILAS	Distance & direction from SAC (km)	Background Deposition & Exceedance Ranges (kg N ha yr)						Modelled proxy (allocated site & relevant SAC/SPA)
		Dry Heath			Northern Wet Heath			
		Background	Exceedance Range		Background	Exceedance Range		
			Min CL	Max CL		Min CL	Max CL	
ILAS18 (Hobbs IE, Felbridge)	8.6 North west	14.7	+4.7 (10)	-5.3 (20)	14.7	+4.7 (10)	-5.3 (20)	Site 5 (Lambs BP, South Godstone) which is 8.4 km south east of the Mole Gap to Reigate Escarpment SAC – maximum process contribution modelled for a <50,000 tpa gasification facility on Site 5 to nutrient nitrogen deposition on the Mole Gap to Reigate Escarpment SAC was 0.028 kg N ha yr.

ILAS	Modelled Proxy	Maximum Process Contribution (PC) to Nutrient N Deposition (kg N ha yr)	Max PC as % of Background	Maximum Predicted Environmental Concentration (PEC) (kg N ha yr)	Dry Heath			Northern Wet Heath		
					Min CL (kg N ha yr)	Max PC as % Min CL	Max PEC as % of Min CL	Min CL (kg N ha yr)	Max PC as % Min CL	Max PEC as % of Min CL
ILAS18 (Hobbs IE, Felbridge)	Site 5 <50,000 tpa gasification plant	0.028	0.19%	14.728	10	0.28	147.28%	10	0.28	147.28%

Part B-3: East Hampshire Hangers SAC

Qualifying Features	Sensitive to N deposition	Relevant N CL class	Empirical CL (kg N /ha/yr)	Exceedance impacts
Taxus baccata woods of the British Isles (H91J0)	Yes	Coniferous woodland	5-15	Changes in soil processes, nutrient imbalance, altered composition mycorrhiza and ground vegetation
Asperulo-Fagetum beech forests (H9130)	Yes	Fagus woodland	10-20	Changes in ground vegetation and mycorrhiza, nutrient imbalance, changes soil fauns
Tilio-Acerion forests of slopes, screes and ravines (H9180)	Yes	Meso- & eutrophic Quercus woodland	15-20	Changes in ground vegetation
Semi-natural dry grasslands & scrubland facies on calcareous substrates (Festuco-Brometalia) (* important orchid sites) (H6210)	Yes	Sub-Atlantic semi-dry calcareous grassland	15-25	Increase in tall grasses, decline in diversity, increased mineralization, N leaching; surface acidification.
Gentianella anglica - Early gentian (S1654)	Yes	Sub-Atlantic semi-dry calcareous grassland	15-25	Increase in tall grasses, decline in diversity, increased mineralization, N leaching; surface acidification.

ILAS	Distance & direction from SAC (km)	Background Deposition & Exceedance Ranges (kg N ha yr)											Modelled proxy (allocated site & relevant SAC/SPA)	
		Coniferous Woodland			Fagus Woodland			Meso- & eutrophic Quercus woodland			Sub-Atlantic semi-dry calcareous grassland			
		Back-ground	Exceedance Range		Back-ground	Exceedance Range		Back-ground	Exceedance Range		Back-ground	Exceedance Range		
		Min CL	Max CL		Min CL	Max CL		Min CL	Max CL		Min CL	Max CL		
ILAS20 (Coxbridge BP, Farnham)	6.0 North east	26.74	+21.74	+11.74	26.74	+16.74	+6.74	26.74	+11.74	+6.74	16.94	+1.94	-8.06	Site 1 (Oakleaf Farm, Stanwell Moor) which is 5.9 kilometres to the east of the Windsor Forest & Great Park SAC – maximum process contribution modelled for a <50,000 tpa gasification facility on Site 1 to nutrient nitrogen deposition on the Windsor Forest & Great Park SAC was 0.084 kg N ha yr.
ILAS21 (Farnham TE, Farnham)	9.5 North east	26.74	+21.74	+11.74	26.74	+16.74	+6.74	26.74	+11.74	+6.74	16.94	+1.94	-8.06	Site 5 (Lams BP, South Godstone) which is 8.4 km south east of the Mole Gap to Reigate Escarpment SAC – maximum process contribution modelled for a <50,000 tpa gasification facility on Site 5 to nutrient nitrogen deposition on the Mole Gap to Reigate Escarpment SAC was 0.028 kg N ha yr.

Table B3-C: East Hampshire Hangers SAC: Indicative process contributions to site relevant critical loads for small-scale thermal treatment at ILAS

ILAS	Modelled Proxy	Maximum PC to Nutrient N Deposition (kg N ha yr)	Max PC as % of Background	Maximum PEC (kg N ha yr)	Coniferous Woodland			Fagus Woodland			Meso- & eutrophic Quercus woodland			Sub-Atlantic semi-dry calcareous grassland		
					Min CL (kg N ha yr)	Max PC as % Min CL	Max PEC as % of Min CL	Min CL (kg N ha yr)	Max PC as % Min CL	Max PEC as % of Min CL	Min CL (kg N ha yr)	Max PC as % Min CL	Max PEC as % of Min CL	Min CL (kg N ha yr)	Max PC as % Min CL	Max PEC as % of Min CL
ILAS20 (Coxbridge BP, Farnham)	Site 1 <50,000 tpa gasification plant	0.084	Woodland 0.31%	26.824	5	1.68%	536.48%	10	0.84%	268.24%	15	0.56%	178.83%	15	0.56	113.49
			Grassland 0.49%	17.024												
ILAS21 (Farnham TE, Farnham)	Site 5 <50,000 tpa gasification plant	0.028	Woodland 0.10%	26.768	5	0.56%	535.36%	10	0.28%	267.68%	15	0.19%	178.45%	15	0.19	113.12
			Grassland 0.16%	16.968												

Part B-4: Ebernoe Common SAC

Qualifying Features	Sensitive to N deposition	Relevant N CL class	Empirical CL (kg N /ha/yr)	Exceedance impacts
Atlantic acidophilous beech forests with Ilex and sometimes also Taxus in the shrublayer (Quercion robori-petraeae or Ilici-Fagenion) (H9120)	Yes	Fagus woodland	10-20	Changes in ground vegetation & mycorrhiza, nutrient imbalance, changes soil fauna
Barbastella barbastellus - Barbastelle (S1308)	Yes	Broadleaved deciduous woodland	10-20	Changes in soil processes, nutrient imbalance, altered composition mycorrhiza and ground vegetation
Myotis bechsteini - Bechstein's bat (S1323)	Yes	Broadleaved deciduous woodland	10-20	Changes in soil processes, nutrient imbalance, altered composition mycorrhiza and ground vegetation

ILAS	Distance & direction from SAC (km)	Background Deposition & Exceedance Ranges (kg N ha yr)						Modelled proxy (allocated site & relevant SAC/SPA)
		Fagus woodland			Broadleaved deciduous woodland			
		Background	Exceedance Range		Background	Exceedance Range		
		Min CL	Max CL	Min CL	Max CL			
ILAS19 (Land at Dunsfold Aerodrome, Cranleigh)	8.8 North east	23.1	+13.1	+3.1	23.1	+13.1	+3.1	Site 5 (Lambs BP, South Godstone) which is 8.4 km south east of the Mole Gap to Reigate Escarpment SAC – maximum process contribution modelled for a <50,000 tpa gasification facility on Site 5 to nutrient nitrogen deposition on the Mole Gap to Reigate Escarpment SAC was 0.028 kg N ha yr.

ILAS	Modelled Proxy	Maximum Process Contribution (PC) to Nutrient N Deposition (kg N ha yr)	Max PC as % of Background	Maximum Predicted Environmental Concentration (PEC) (kg N ha yr)	Fagus woodland			Broadleaved deciduous woodland		
					Min CL (kg N ha yr)	Max PC as % Min CL	Max PEC as % of Min CL	Min CL (kg N ha yr)	Max PC as % Min CL	Max PEC as % of Min CL
ILAS19 (Land at Dunsfold Aerodrome, Cranleigh)	Site 5 <50,000 tpa gasification plant	0.028	0.12%	23.128	10	0.28%	231.28%	10	0.28%	231.28%

Part B-5: Mole Gap to Reigate Escarpment SAC

Qualifying Features	Sensitive to N deposition	Relevant N CL class	Empirical CL (kg N /ha/yr)	Exceedance impacts
Taxus baccata woods of the British Isles (H91J0)	Yes	Coniferous woodland	5-15	Changes in soil processes, nutrient imbalance, altered composition mycorrhiza and ground vegetation
European dry heaths (H4030)	Yes	Dry heaths	10-20	Transition from heather to grass dominance, decline in lichens, changes in plant biochemistry, increased sensitivity to abiotic stress.
Asperulo-Fagetum beech forests (H9130)	Yes	Fagus woodland	10-20	Changes in ground vegetation and mycorrhiza, nutrient imbalance, changes soil fauns
Stable xerothermophilous formations with Buxus sempervirens on rock slopes (Berberidion pp) (H5110)	Yes	Sub-atlantic semi-dry calcareous grassland	15-25	Increase in tall grasses, decline in diversity, increased mineralization, N leaching; surface acidification.
Semi-natural dry grasslands & scrubland facies on calcareous substrates (Festuco-Brometalia) (* important orchid sites) (H6210)	Yes	Sub-atlantic semi-dry calcareous grassland	15-25	Increase in tall grasses, decline in diversity, increased mineralization, N leaching; surface acidification.

ILAS	Distance & direction from SAC (km)	Background Deposition & Exceedance Ranges (kg N ha yr)												Modelled Scenarios [Allocated Sites] /Modelled proxy (allocated site & relevant SAC/SPA) [ILAS]
		Coniferous Woodland			Beech Woodland			Dry Heath			Sub-Atlantic semi-dry calcareous grassland			
		Back-ground	Exceedance Range		Back-ground	Exceedance Range		Back-ground	Exceedance Range		Back-ground	Exceedance Range		
		Min CL	Max CL		Min CL	Max CL		Min CL	Max CL		Min CL	Max CL		
Site 4: Leatherhead STW, Randalls Rd, Leatherhead	2.9 North	24.9	+19.9	+9.9	24.9	+14.9	+4.9	15.7	+5.7	-4.3	15.7	+0.7	-9.3	Beddington ERF (c.275,000 tpa EFW) maximum PC of 0.462 kg N ha yr; Hooton Gasification (c.284,000 tpa) maximum PC of 0.546 kg N ha yr; Wealden EFW (c.180,000 tpa) maximum PC of 0.378 kg N ha yr; Charlton Lane Eco Park (c. 44,710 tpa gasification) maximum PC of 0.168 kg N ha yr.
Site 5: Lams Business Park, South Godstone	8.4 North west	29.5	+24.5	+14.5	29.5	+19.5	+9.5	17.8	+7.8	-2.2	17.8	+2.8	-7.2	Beddington ERF (c.275,000 tpa EFW) maximum PC of 0.084 kg N ha yr; Hooton Gasification (c.284,000 tpa) maximum PC of 0.126 kg N ha yr; Wealden EFW (c.180,000 tpa) maximum PC of 0.070 kg N ha yr; Charlton Lane Eco Park (c. 44,710 tpa gasification) maximum PC of 0.028 kg N ha yr.

Table B5-B: Allocated Sites & ILAS located within 10 km of the Mole Gap to Reigate Escarpment SAC

ILAS	Distance & direction from SAC (km)	Background Deposition & Exceedance Ranges (kg N ha yr)												Modelled Scenarios [Allocated Sites] /Modelled proxy (allocated site & relevant SAC/SPA) [ILAS]
		Coniferous Woodland			Beech Woodland			Dry Heath			Sub-Atlantic semi-dry calcareous grassland			
		Back-ground	Exceedance Range		Back-ground	Exceedance Range		Back-ground	Exceedance Range		Back-ground	Exceedance Range		
		Min CL	Max CL		Min CL	Max CL		Min CL	Max CL		Min CL	Max CL		
ILAS10 (Land at Dorking West Station, Dorking)	1.7 South west	24.92	+19.9	+9.9	24.9	+14.9	+4.9	15.7	+5.7	-4.3	15.7	+0.7	-9.3	Site 3 (Land NE of Slyfield IE, Guildford) which is 1.2 kilometres to the south east of the Thames Basin Heaths SPA (Whitmoor Common SSSI) – maximum process contribution for a <50,000 tpa gasification facility on Site 3 to nutrient nitrogen deposition on the Thames Basin Heaths SPA was 0.518 kg N ha yr.
ILAS11 (Holmethorpe IE, Redhill)	2.5 East	29.54	+24.5	+14.5	29.5	+19.5	+9.5	17.8	+7.8	-2.2	17.8	+2.8	-7.2	Site 4 (Leatherhead STW, Leatherhead) which is 2.9 km north of the Mole Gap to Reigate Escarpment SAC – maximum process contribution for a <50,000 tpa gasification facility on Site 2 to nutrient nitrogen deposition on the Mole Gap to Reigate Escarpment SAC was 0.168 kg N ha yr.
ILAS12 (Perrywood BP, Salfords)	5.9 South east	29.54	+24.5	+14.5	29.5	+19.5	+9.5	17.8	+7.8	-2.2	17.8	+2.8	-7.2	Site 1 (Oakleaf Farm, Stanwell Moor) which is 5.9 km to the east of the Windsor Forest & Great Park SAC – maximum process contribution modelled for a <50,000 tpa gasification facility on Site 1 to nutrient nitrogen deposition on the Windsor Forest & Great Park SAC was 0.084 kg N ha yr.
ILAS13 (Salfords IE, Salfords)	6.1 South east	29.54	+24.5	+14.5	29.5	+19.5	+9.5	17.8	+7.8	-2.2	17.8	+2.8	-7.2	Site 1 (Oakleaf Farm, Stanwell Moor) which is 5.9 km to the east of the Windsor Forest & Great Park SAC – maximum process contribution modelled for a <50,000 tpa gasification facility on Site 1 to nutrient nitrogen deposition on the Windsor Forest & Great Park SAC was 0.084 kg N ha yr.
ILAS04 (Longmead IE, Epsom)	7.3 North	26.74	+21.7	+11.7	26.7	+16.7	+6.7	16.4	+6.4	-3.6	16.4	+1.4	-8.6	Site 5 (Lambs BP, South Godstone) which is 8.4 km south east of the Mole Gap to Reigate Escarpment SAC – maximum process contribution modelled for a <50,000 tpa gasification facility on Site 5 to nutrient nitrogen deposition on the Mole Gap to Reigate Escarpment SAC was 0.028 kg N ha yr.

Table B5-C: Mole Gap to Reigate Escarpment SAC: Predicted process contributions to site relevant critical loads for different thermal treatment development scenarios for sites allocated under Policy 11a of the Surrey WLP

SWLP Site Allocation	Development Scenario	Max PC to Nutrient N Deposition (kg N ha yr)	Coniferous Woodland					Dry Heath					Beech Woodland					Semi-dry Calcareous Grassland				
			Min CL (kg N ha yr)	Max PC as % Min CL	Max PC as % of Backgr rd	Max PEC (kg N ha yr)	Max PEC as % of Min CL	Min CL (kg N ha yr)	Max PC as % Min CL	Max PC as % of Backgr rd	Max PEC (kg N ha yr)	Max PEC as % of Min CL	Min CL (kg N ha yr)	Max PC as % Min CL	Max PC as % of Backgr rd	Max PEC (kg N ha yr)	Max PEC as % of Min CL	Min CL (kg N ha yr)	Max PC as % Min CL	Max PC as % of Backgr rd	Max PEC (kg N ha yr)	Max PEC as % of Min CL
Site 4: Leatherhead STW, Randalls Rd, Leatherhead	Beddington ERF	0.46	5	9.2	1.8%	25.4	508%	10	4.6	2.9%	16.1	161%	10	4.6	1.8%	25.4	254%	15	3.1	2.9%	16.1	107%
	Hooton Gasification	0.55	5	10.9	2.2%	25.5	510%	10	5.5	3.5%	16.2	162%	10	5.5	2.2%	25.5	255%	15	3.6	3.5%	16.2	108%
	Wealden EfW	0.38	5	7.6	1.5%	25.3	506%	10	3.8	2.4%	16.1	161%	10	3.8	1.5%	25.3	253%	15	2.5	2.4%	16.1	107%
	Charlton Ln Eco Pk	0.17	5	3.4	0.7%	25.1	502%	10	1.7	1.1%	15.9	159%	10	1.7	0.7%	25.1	251%	15	1.1	1.1%	15.9	106%
Site 5: Lambs Business Park, South Godstone	Beddington ERF	0.08	5	1.7	0.3%	29.6	592%	10	0.8	0.4%	17.9	179%	10	0.8	0.3%	29.6	296%	15	0.6	0.4%	17.9	119%
	Hooton Gasification	0.13	5	2.5	0.4%	29.7	593%	10	1.3	0.7%	17.9	179%	10	1.3	0.4%	29.7	297%	15	0.8	0.7%	17.9	119%
	Wealden EfW	0.07	5	1.4	0.2%	29.6	592%	10	0.7	0.4%	17.9	179%	10	0.7	0.2%	29.6	296%	15	0.5	0.4%	17.9	119%
	Charlton Ln Eco Pk	0.03	5	0.6	0.1%	29.6	592%	10	0.3	0.2%	17.8	178%	10	0.3	0.1%	29.6	296%	15	0.2	0.2%	17.8	119%

Table B5-D: Mole Gap to Reigate Escarpment SAC: Indicative process contributions to site relevant critical loads for small-scale thermal treatment at ILAS

ILAS	Modelled Proxy	Maximum PC to Nutrient N Deposition (kg N ha yr)	Max PC as % of Background	Maximum PEC (kg N ha yr)	Coniferous Woodland Habitat			Dry Heath Habitat			Beech woodland habitat			Semi-dry calcareous grassland habitat		
					Min CL (kg N ha yr)	Max PC as % Min CL	Max PEC as % of Min CL	Min CL (kg N ha yr)	Max PC as % Min CL	Max PEC as % of Min CL	Min CL (kg N ha yr)	Max PC as % Min CL	Max PEC as % of Min CL	Min CL (kg N ha yr)	Max PC as % Min CL	Max PEC as % of Min CL
ILAS10 (Land at Dorking West Station, Dorking)	Site 3 <50,000 tpa gasification plant	0.518	Woodland 2.1% Grassland/Heath 3.3%	25.44 16.20	5	10.4%	509%	10	5.2	162%	10	5.2	254%	15	3.5	108%
ILAS11 (Holmethorpe IE, Redhill)	Site 4 <50,000 tpa gasification plant	0.168	Woodland 0.57% Grassland/Heath 0.94%	29.71 17.95	5	3.4%	594%	10	1.7	180%	10	1.7	297%	15	1.1	120%
ILAS12 (Perrywood BP, Salfords)	Site 1 <50,000 tpa gasification plant	0.084	Woodland 0.28% Grassland/Heath 0.47%	29.62 17.86	5	1.7%	592%	10	0.8	179%	10	0.8	296%	15	0.6	119%
ILAS13 (Salfords IE, Salfords)	Site 1 <50,000 tpa gasification plant	0.084	Woodland 0.28% Grassland/Heath 0.47%	29.62 17.86	5	1.7%	592%	10	0.8	179%	10	0.8	296%	15	0.6	119%

Table B5-D: Mole Gap to Reigate Escarpment SAC: Indicative process contributions to site relevant critical loads for small-scale thermal treatment at ILAS

ILAS	Modelled Proxy	Maximum PC to Nutrient N Deposition (kg N ha yr)	Max PC as % of Background	Maximum PEC (kg N ha yr)	Coniferous Woodland Habitat			Dry Heath Habitat			Beech woodland habitat			Semi-dry calcareous grassland habitat		
					Min CL (kg N ha yr)	Max PC as % Min CL	Max PEC as % of Min CL	Min CL (kg N ha yr)	Max PC as % Min CL	Max PEC as % of Min CL	Min CL (kg N ha yr)	Max PC as % Min CL	Max PEC as % of Min CL	Min CL (kg N ha yr)	Max PC as % Min CL	Max PEC as % of Min CL
ILAS04 (Longmead IE, Epsom)	Site 5 <50,000 tpa gasification plant	0.028	Woodland 0.10%	26.77	5	0.6	535%	10	0.3	164%	10	0.3	268%	15	0.2	109%
			Grassland/Heath 0.17%	16.41												

Part B-6: Shortheath Common SAC

Qualifying Features	Sensitive to N deposition	Relevant N CL class	Empirical CL (kg N /ha/yr)	Exceedance impacts
Bog woodland (H91D0)	Yes	Raised & blanket bogs	5-10	Increase in vascular plants, altered growth & species composition of bryophytes, increased N in peat & peat water.
Transition mires & quaking bogs (H7140)	Yes	Valley mires, poor fens & transition mires	10-15	Increase sedges & vascular plants, negative effects on bryophytes.
European dry heaths (H4030)	Yes	Dry heaths	10-20	Transition from heather to grass dominance, decline in lichens, changes in plant biochemistry, increased sensitivity to abiotic stress.

ILAS	Distance & direction from SAC (km)	Background Deposition & Exceedance Ranges (kg N ha yr)									Modelled proxy (allocated site & relevant SAC/SPA)
		Raised & blanket bogs			Valley mires, poor fens & transition mires			Dry heaths			
		Back-ground	Exceedance Range		Back-ground	Exceedance Range		Back-ground	Exceedance Range		
		Min CL	Max CL		Min CL	Max CL		Min CL	Max CL		
ILAS20 (Coxbridge BP, Farnham)	9.4 North east	16.38	+11.38	+6.38	16.38	+6.38	+1.38	16.38	+6.38	-3.62	Site 5 (Lambs BP, South Godstone) which is 8.4 km south east of the Mole Gap to Reigate Escarpment SAC – maximum process contribution modelled for a <50,000 tpa gasification facility on Site 5 to nutrient nitrogen deposition on the Mole Gap to Reigate Escarpment SAC was 0.028 kg N ha yr.

ILAS	Modelled Proxy	Maximum PC to Nutrient N Deposition (kg N ha yr)	Max PC as % of Background	Maximum PEC (kg N ha yr)	Raised & blanket bogs			Valley mires, poor fens & transition mires			Dry heaths		
					Min CL (kg N ha yr)	Max PC as % Min CL	Max PEC as % of Min CL	Min CL (kg N ha yr)	Max PC as % Min CL	Max PEC as % of Min CL	Min CL (kg N ha yr)	Max PC as % Min CL	Max PEC as % of Min CL
ILAS20 (Coxbridge BP, Farnham)	Site 5 <50,000 tpa gasification plant	0.028	0.17%	16.41	5	0.56	328%	10	0.28	164%	10	0.28	164%

Part B-7: Thames Basin Heaths SPA

Qualifying Features	Sensitive to N deposition	Relevant N CL class	Empirical CL (kg N /ha/yr)	Exceedance impacts
Coniferous woodland habitats of the European nightjar (A224), & the Woodlark (A246)	Yes	Coniferous woodland	5-15	Changes in soil processes, nutrient imbalance, altered composition mycorrhiza and ground vegetation
Dwarf shrub heath habitats of the European nightjar (A224), the Woodlark (A246), & the Dartford Warbler (A302)	Yes	Dry heaths	10-20	Transition from heather to grass dominance, decline in lichens, changes in plant biochemistry, increased sensitivity to abiotic stress.

Allocated Site or ILAS	Distance & direction from SPA (km)	Background Deposition & Exceedance Ranges (kg N ha yr)						Modelled Scenarios [Allocated Sites] /Modelled proxy (allocated site & relevant SAC/SPA) [ILAS]
		Background	Coniferous Woodland		Back-ground	Dry Heath		
			Exceedance Range	Exceedance Range		Min CL	Max CL	
Site 2: Weylands TW, Walton on Thames	7.1 NE (Ockham & Wisley Commons SSSI)	22.54	+17.54	+7.54	13.86	+3.86	-6.14	Beddington ERF (c.275,000 tpa EfW) maximum PC of 0.490 kg N ha yr; Hooton Gasification (c.284,000 tpa) maximum PC of 0.560 kg N ha yr; Wealden EfW (c.180,000 tpa) maximum PC of 0.406 kg N ha yr; Charlton Lane Eco Park (c. 44,710 tpa gasification) maximum PC of 0.126 kg N ha yr.
Site 3: Slyfield Industrial Estate, Guildford	1.2 SE (Whitmoor Common SSSI)	23.24	+18.24	+8.24	14.28	+4.28	-5.72	Beddington ERF (c.275,000 tpa EfW) maximum PC of 1.106kg N ha yr; Hooton Gasification (c.284,000 tpa) maximum PC of 1.316 kg N ha yr; Wealden EfW (c.180,000 tpa) maximum PC of 0.826 kg N ha yr; Charlton Lane Eco Park (c. 44,710 tpa gasification) maximum PC of 0.518 kg N ha yr.
Site 4: Leatherhead STW, Leatherhead	5.5 SE (Ockham & Wisley Commons SSSI)	22.54	+17.54	+7.54	13.86	+3.86	-6.14	Beddington ERF (c.275,000 tpa EfW) maximum PC of 0.336 kg N ha yr; Hooton Gasification (c.284,000 tpa) maximum PC of 0.448 kg N ha yr; Wealden EfW (c.180,000 tpa) maximum PC of 0.308 kg N ha yr; Charlton Lane Eco Park (c. 44,710 tpa gasification) maximum PC of 0.098 kg N ha yr.
ILAS01 (Brooklands Ind Pk, Wintersells Rd Ind Pk, Byfleet IE, Byfleet)	2.3 NW (Ockham & Wisley Commons SSSI)	22.54	+17.54	+7.54	13.86	+3.86	-6.14	Land at Trumps Farm, Longcross (R18 SWLP Proposed Site Allocation) which is 1.4 km north east of the Thames Basin Heaths SPA (Chobham Common SSSI) – maximum process contribution for a <50,000 tpa gasification facility on land at Trumps Farm to nutrient nitrogen deposition on the Thames Basin Heaths SPA was 0.560 kg N ha yr.
ILAS02 (Hersham TE, Walton on Thames)	6.9 NE (Ockham & Wisley Commons SSSI)	22.54	+17.54	+7.54	13.86	+3.86	-6.14	Site 2 (Weylands Treatment Works, Walton on Thames) which is 7.1 km north east of the Thames Basin Heaths SPA (Ockham & Wisley Commons SSSI) – maximum process contribution for a <50,000 tpa gasification facility on Site 2 to nutrient nitrogen deposition on the Thames Basin Heaths SPA was 0.126 kg N ha yr.

Table B7-B: Allocated Sites (Policy 11a) & ILAS located within 10 km of the Thames Basin Heaths SPA

Allocated Site or ILAS	Distance & direction from SPA (km)	Background Deposition & Exceedance Ranges (kg N ha yr)						Modelled Scenarios [Allocated Sites] /Modelled proxy (allocated site & relevant SAC/SPA) [ILAS]
		Coniferous Woodland			Dry Heath			
		Background	Exceedance Range		Back-ground	Exceedance Range		
		Min CL	Max CL		Min CL	Max CL		
ILAS03 (Molesey IE, West Molesey)	9.6 NE (Ockham & Wisley Commons SSSI)	22.54	+17.54	+7.54	13.86	+3.86	-6.14	Lyne Lane, Chertsey (R18 SWLP Proposed Site Allocation) which is 9.6 km north west of the Thames Basin Heaths SPA (Ockham & Wisley Commons SSSI) – maximum process contribution for a <50,000 tpa gasification facility at Lyne Lane to nutrient nitrogen deposition on the Thames Basin Heaths SPA was 0.056 kg N ha yr.
ILAS05 (Slyfield IE, Guildford)	0.8 SE (Whitmoor Common SSSI)	23.24	+18.24	+8.24	14.28	+4.28	-5.72	Land at Martyrs Lane, Woking (R18 SWLP Proposed Site Allocation) which is 0.5 km east of the Thames Basin Heaths SPA (Horsell Common SSSI) – maximum process contribution for a <50,000 tpa gasification facility on land at Martyrs Lane to nutrient nitrogen deposition on the Thames Basin Heaths SPA was 1.428 kg N ha yr
ILAS06 (Woodbridge Meadows IE, Guildford)	2.2 S (Whitmoor Common SSSI)	23.24	+18.24	+8.24	14.28	+4.28	-5.72	Land at Trumps Farm, Longcross (R18 SWLP Proposed Site Allocation) which is 1.4 km north east of the Thames Basin Heaths SPA (Chobham Common SSSI) – maximum process contribution for a <50,000 tpa gasification facility on land at Trumps Farm to nutrient nitrogen deposition on the Thames Basin Heaths SPA was 0.560 kg N ha yr.
ILAS07 (Land N&S of Lysons Ave, Ash Vale)	0.4 W (Ash to Brookwood Heaths SSSI)	25.48	+20.48	+10.48	15.68	+5.68	-4.32	Land at Martyrs Lane, Woking (R18 SWLP Proposed Site Allocation) which is 0.5 km east of the Thames Basin Heaths SPA (Horsell Common SSSI) – maximum process contribution for a <50,000 tpa gasification facility on land at Martyrs Lane to nutrient nitrogen deposition on the Thames Basin Heaths SPA was 1.428 kg N ha yr
ILAS08 (Riverwey IE, Astolat BP & Weyvern Pk, Peasmarsh)	6.8 N (Whitmoor Common SSSI)	23.24	+18.24	+8.24	14.28	+4.28	-5.72	Site 2 (Weylands Treatment Works, Walton on Thames) which is 7.1 km north east of the Thames Basin Heaths SPA (Ockham & Wisley Commons SSSI) – maximum process contribution for a <50,000 tpa gasification facility on Site 2 to nutrient nitrogen deposition on the Thames Basin Heaths SPA was 0.126 kg N ha yr.
ILAS09 (Land at Burnt Common Warehouse, Send)	3.6 E (Whitmoor Common SSSI)	23.24	+18.24	+8.24	14.28	+4.28	-5.72	Martyrs Lane, Woking (R18 SWLP Proposed Site Allocation) which is 3.2 km south east of the Thames Basin Heaths SPA (Chobham Common SSSI) – maximum process contribution for a <50,000 tpa gasification facility at Martyrs Lane to nutrient nitrogen deposition on the Thames Basin Heaths SPA was 0.084 kg N ha yr
ILAS14 (Thorpe IE, Thorpe)	5.5 NE (Chobham Common SSSI)	21.98	+16.98	+6.98	13.44	+3.44	-6.56	Site 4 (Leatherhead STW, Leatherhead) which is 5.5 km south east of the Thames Basin Heaths SPA) Ockham & Wisley Commons SSSI) – maximum process contribution for a <50,000 tpa gasification facility on Site 42 to nutrient nitrogen deposition on the Thames Basin Heaths SPA -was 0.098 kg N ha yr.
ILAS15 (Byfleet Rd Employment Allocation, Byfleet)	2.9 NW (Ockham & Wisley Commons SSSI)	22.54	+17.54	+7.54	13.86	+3.86	-6.14	Martyrs Lane, Woking (R18 SWLP Proposed Site Allocation) which is 3.2 km south east of the Thames Basin Heaths SPA (Chobham Common SSSI) – maximum process contribution for a <50,000 tpa gasification facility at Martyrs Lane to nutrient nitrogen deposition on the Thames Basin Heaths SPA was 0.084 kg N ha yr
ILAS16 (Windmill Rd Ind Area, Sunbury on Thames)	9.8 N (Ockham & Wisley Commons SSSI)	22.54	+17.54	+7.54	13.86	+3.86	-6.14	Lyne Lane, Chertsey (R18 SWLP Proposed Site Allocation) which is 9.6 km north west of the Thames Basin Heaths SPA (Ockham & Wisley Commons SSSI) – maximum process contribution for a <50,000 tpa gasification facility at Lyne Lane to nutrient nitrogen deposition on the Thames Basin Heaths SPA was 0.056 kg N ha yr.

Table B7-B: Allocated Sites (Policy 11a) & ILAS located within 10 km of the Thames Basin Heaths SPA

Allocated Site or ILAS	Distance & direction from SPA (km)	Background Deposition & Exceedance Ranges (kg N ha yr)						Modelled Scenarios [Allocated Sites] / Modelled proxy (allocated site & relevant SAC/SPA) [ILAS]
		Background	Coniferous Woodland		Back-ground	Dry Heath		
			Min CL	Max CL		Min CL	Max CL	
ILAS17 (York Town IE, Camberley)	0.6 E (Castle Bottom to Yateley & Hawley Commons SSSI)	26.6	+21.6	+11.6	16.1	+6.1	-3.9	Land at Martyrs Lane, Woking (R18 SWLP Proposed Site Allocation) which is 0.5 km east of the Thames Basin Heaths SPA (Horsell Common SSSI) – maximum process contribution for a <50,000 tpa gasification facility on land at Martyrs Lane to nutrient nitrogen deposition on the Thames Basin Heaths SPA was 1.428 kg N ha yr
ILAS20 (Coxbridge BP, Farnham)	3.2 S (Bourley & Long Valley SSSI)	26.6	+21.6	+11.6	16.1	+6.1	-3.9	Martyrs Lane, Woking (R18 SWLP Proposed Site Allocation) which is 3.2 km south east of the Thames Basin Heaths SPA (Chobham Common SSSI) – maximum process contribution for a <50,000 tpa gasification facility at Martyrs Lane to nutrient nitrogen deposition on the Thames Basin Heaths SPA was 0.084 kg N ha yr
ILAS21 (Farnham TE, Farnham)	2.1 SE (Bourley & Long Valley SSSI)	26.6	+21.6	+11.6	16.1	+6.1	-3.9	Land at Trumps Farm, Longcross (R18 SWLP Proposed Site Allocation) which is 1.4 km north east of the Thames Basin Heaths SPA (Chobham Common SSSI) – maximum process contribution for a <50,000 tpa gasification facility on land at Trumps Farm to nutrient nitrogen deposition on the Thames Basin Heaths SPA was 0.560 kg N ha yr.
ILAS22 (Monument Way East IE, Woking)	0.7 S (Horsell Common SSSI)	22.26	+17.26	+7.26	13.44	+3.44	-6.56	Land at Martyrs Lane, Woking (R18 SWLP Proposed Site Allocation) which is 0.5 km east of the Thames Basin Heaths SPA (Horsell Common SSSI) – maximum process contribution for a <50,000 tpa gasification facility on land at Martyrs Lane to nutrient nitrogen deposition on the Thames Basin Heaths SPA was 1.428 kg N ha yr

Table B7-C: Thames Basin Heaths SPA: Predicted process contributions to site relevant critical loads for different thermal treatment development scenarios

SWLP Site Allocation	Development Scenario	Max PC to Nutrient N Deposition (kg N ha yr) at closest component SSSI	Coniferous Woodland					Dwarf Shrub Heath				
			Min CL (kg N ha yr)	Max PC as % Min CL	Max PC as % of Background	Max PEC (kg N ha yr)	Max PEC as % of Min CL	Min CL (kg N ha yr)	Max PC as % Min CL	Max PC as % of Background	Max PEC (kg N ha yr)	Max PEC as % of Min CL
Site 2: Weylands TW, Walton on Thames	Beddington ERF	0.490	5	9.80	2.2%	23.03	461%	10	4.90	3.54%	14.35	144%
	Hooton Gasification	0.560	5	11.20	2.5%	23.10	462%	10	5.60	4.04%	14.42	144%
	Wealden EFW	0.406	5	8.12	1.8%	22.95	459%	10	4.06	2.93%	14.27	143%
	Charlton Ln Eco Pk	0.126	5	2.52	0.56%	22.67	453%	10	1.26	0.91%	13.99	140%
Site 3: Slyfield Industrial Estate, Guildford	Beddington ERF	1.106	5	22.12	4.76%	24.35	487%	10	11.06	7.75%	15.39	154%
	Hooton Gasification	1.316	5	26.32	5.66%	24.56	491%	10	13.16	9.22%	15.60	156%
	Wealden EFW	0.826	5	16.52	3.55%	24.07	481%	10	8.26	5.78%	15.11	151%
	Charlton Ln Eco Pk	0.518	5	10.36	2.23%	23.76	475%	10	5.18	3.63%	14.80	148%
Site 4: Leatherhead STW, Leatherhead	Beddington ERF	0.336	5	6.72	1.49%	22.88	458%	10	3.36	2.42%	14.20	142%
	Hooton Gasification	0.448	5	8.96	1.99%	22.99	460%	10	4.48	3.23%	14.31	143%
	Wealden EFW	0.308	5	6.16	1.37%	22.85	457%	10	3.08	2.22%	14.17	142%
	Charlton Ln Eco Pk	0.098	5	1.96	0.43%	22.64	453%	10	0.98	0.71%	13.96	140%

Table B7-D: Thames Basin Heaths SPA: Indicative process contributions to site relevant critical loads for small-scale thermal treatment at ILAS

ILAS	Modelled Proxy	Maximum PC to Nutrient N Deposition (kg N ha yr)	Min CL (kg N ha yr)	Coniferous Woodland				Dwarf Shrub Heath				
				Max PC as % Min CL	Max PC as % of Background	Maximum PEC (kg N ha yr)	Max PEC as % of Min CL	Min CL (kg N ha yr)	Max PC as % Min CL	Max PC as % of Background	Maximum PEC (kg N ha yr)	Max PEC as % of Min CL
ILAS01 (Brooklands Ind Pk, Wintersells Rd Ind Pk, Byfleet IE, Byfleet)	<50,000 tpa gasification facility at Trumps Farm, Longcross	0.560	5	11.2	2.48%	23.1	462%	10	5.6	4.04%	14.42	144%
ILAS02 (Hersham TE, Walton on Thames)	<50,000 tpa gasification facility at Site 2	0.126	5	2.52	0.56%	22.67	453%	10	1.26	0.91%	13.99	140%
ILAS03 (Molesey IE, West Molesey)	<50,000 tpa gasification facility at Site 2	0.056	5	1.12	0.25%	22.60	452%	10	0.56	0.40%	13.92	139%
ILAS05 (Slyfield IE, Guildford)	<50,000 tpa gasification facility at Martyrs Lane, Woking	1.428	5	28.56	6.14%	24.67	493%	10	14.28	10.0%	15.71	157%
ILAS06 (Woodbridge Meadows IE, Guildford)	<50,000 tpa gasification facility at Trumps Farm, Longcross	0.560	5	11.2	2.41%	23.8	476%	10	5.6	3.92%	14.84	148%
ILAS07 (Land N&S of Lysons Ave, Ash Vale)	<50,000 tpa gasification facility at Martyrs Lane, Woking	1.428	5	28.56	5.60%	26.91	538%	10	14.28	9.11%	17.11	171%
ILAS08 (Riverwey IE, Astolat BP & Weyvern Pk, Peasmarsh)	<50,000 tpa gasification facility at Site 2	0.126	5	2.52	0.54%	23.37	467%	10	1.26	0.88%	14.41	144%
ILAS09 (Land at Burnt Common Warehouse, Send)	<50,000 tpa gasification facility at Lyne Lane, Chertsey	0.084	5	1.68	0.36%	23.32	466%	10	0.84	0.59%	14.36	144%
ILAS14 (Thorpe IE, Thorpe)	<50,000 tpa gasification facility at Site 4	0.098	5	1.96	0.45%	22.08	442%	10	0.98	0.73%	13.54	135%
ILAS15 (Byfleet Rd Employment Allocation, Byfleet)	<50,000 tpa gasification facility at Trumps Farm, Longcross	0.084	5	1.68	0.37%	22.62	452%	10	0.84	0.61%	13.94	139%
ILAS16 (Windmill Rd Ind Area, Sunbury on Thames)	<50,000 tpa gasification facility at Site 2	0.056	5	1.12	0.25%	22.60	452%	10	0.56	0.40%	13.92	139%
ILAS17 (York Town IE, Camberley)	<50,000 tpa gasification facility at Martyrs Lane, Woking	1.428	5	28.56	5.37%	28.03	561%	10	14.28	8.87%	17.53	175%
ILAS20 (Coxbridge BP, Farnham)	<50,000 tpa gasification facility at Lyne Lane, Chertsey	0.084	5	1.68	0.32%	26.68	534%	10	0.84	0.52%	16.18	162%
ILAS21 (Farnham TE, Farnham)	<50,000 tpa gasification facility at Trumps Farm, Longcross	0.560	5	11.2	2.11%	27.16	543%	10	5.6	3.48%	16.66	167%
ILAS22 (Monument Way East IE, Woking)	<50,000 tpa gasification facility at Martyrs Lane, Woking	1.428	5	28.56	6.42%	23.69	474%	10	14.28	10.63%	14.87	149%

Part B-8: Thursley, Ash, Pirbright & Chobham SAC

Qualifying Features	Sensitive to N deposition	Relevant N CL class	Empirical CL (kg N /ha/yr)	Exceedance impacts
Depressions on peat substrates of the <i>Rhynchosporion</i> (H7150)	Yes	Valley mires, poor fens & transition mires	10-15	Increase sedges & vascular plants, negative effects on bryophytes.
Northern Atlantic wet heaths with <i>Erica tetralix</i> (H4010)	Yes	Northern wet heath	10-20	Transition heather to grass. Ericaceous species susceptible to frost & drought.
European dry heaths (H4030)	Yes	Dry heath	10-20	Transition from heather to grass dominance, decline in lichens, changes in plant biochemistry, increased sensitivity to abiotic stress.

Allocated Site or ILAS	Distance & direction from SPA (km)	Background Deposition & Exceedance Ranges (kg N ha yr)						Modelled Scenarios [Allocated Sites] / Modelled proxy (allocated site & relevant SAC/SPA) [ILAS]
		Dry Heath / Wet Heath			Mires & Fens			
		Background	Exceedance Range		Back-ground	Exceedance Range		
			Min CL	Max CL		Min CL	Max CL	
Site 3: Slyfield Industrial Estate, Guildford	4.7 SE (Ash to Brookwood Heaths SSSI)	14.28	+4.28	-5.72	14.28	+4.28	-0.72	Beddington ERF (c.275,000 tpa EFW) maximum PC of 0.560kg N ha yr; Hooton Gasification (c.284,000 tpa) maximum PC of 0.728 kg N ha yr; Wealden EFW (c.180,000 tpa) maximum PC of 0.518 kg N ha yr; Charlton Lane Eco Park (c. 44,710 tpa gasification) maximum PC of 0.196 kg N ha yr. The air quality assessment work that fed into the HRA did not include modelling of the impact of emissions from thermal treatment facilities located on Site 3 (Slyfield IE, Guildford) on the Ash to Brookwood Heaths SSSI component of the Thursley, Ash, Pirbright & Chobham SAC. The figures given above are those provided by modelling for thermal treatment facilities on the land at Martyrs Lane in Woking (proposed as a site allocation in the Regulation 18 version of the Surrey WLP with reference to the Ockham & Wisley Common SSSI component of the Thames Basin Heaths SPA (located some 4.7 km south east of the proposed site allocation).
ILAS01 (Brooklands Ind Pk, Wintersells Rd Ind Pk, Byfleet IE, Byfleet)	6.1 SE (Chobham Common SSSI)	13.30	+3.30	-6.70	13.30	+3.30	-1.70	Site 4 (Leatherhead STW, Leatherhead) which is 5.5 km south east of the Thames Basin Heaths SPA (Ockham & Wisley Commons SSSI) – maximum process contribution for a <50,000 tpa gasification facility on Site 4 to nutrient nitrogen deposition on the Thames Basin Heaths SPA -was 0.098 kg N ha yr.
ILAS05 (Slyfield IE, Guildford)	4.2 SE (Ash to Brookwood Heaths SSSI)	14.28	+4.28	-5.72	14.28	+4.28	-0.72	Site 4 (Leatherhead STW, Leatherhead) which is 5.5 km south east of the Thames Basin Heaths SPA (Ockham & Wisley Commons SSSI) – maximum process contribution for a <50,000 tpa gasification facility on Site 4 to nutrient nitrogen deposition on the Thames Basin Heaths SPA -was 0.098 kg N ha yr.

Table B8-B: Allocated Sites (Policy 11a) & ILAS located within 10 km of the Thursley, Ash, Pirbright & Chobham SAC

Allocated Site or ILAS	Distance & direction from SPA (km)	Background Deposition & Exceedance Ranges (kg N ha yr)						Modelled Scenarios [Allocated Sites] /Modelled proxy (allocated site & relevant SAC/SPA) [ILAS]
		Dry Heath / Wet Heath			Mires & Fens			
		Background	Exceedance Range		Back-ground	Exceedance Range		
			Min CL	Max CL		Min CL	Max CL	
ILAS06 (Woodbridge Meadows IE, Guildford)	4.7 SE (Ash to Brookwood Heaths SSSI)	12.88	+2.88	-7.12	12.88	+2.88	-2.12	Site 4 (Leatherhead STW, Leatherhead) which is 5.5 km south east of the Thames Basin Heaths SPA (Ockham & Wisley Commons SSSI) – maximum process contribution for a <50,000 tpa gasification facility on Site 4 to nutrient nitrogen deposition on the Thames Basin Heaths SPA -was 0.098 kg N ha yr.
ILAS07 (Land N&S of Lysons Ave, Ash Vale)	0.4 W (Ash to Brookwood Heaths SSSI)	15.68	+5.68	-4.32	15.68	+5.68	+0.68	Land at Martyrs Lane, Woking (R18 SWLP Proposed Site Allocation) which is 0.5 km east of the Thames Basin Heaths SPA (Horsell Common SSSI) – maximum process contribution for a <50,000 tpa gasification facility on land at Martyrs Lane to nutrient nitrogen deposition on the Thames Basin Heaths SPA was 1.428 kg N ha yr
ILAS08 (Riverwey IE, Astolat BP & Weyvern Pk, Peasmarsh)	6.6 NE (Thursley, Hankley & Frensham Commons SSSI)	14.84	+4.84	-5.16	14.84	+4.84	-0.16	Site 2 (Weylands Treatment Works, Walton on Thames) which is 7.1 km north east of the Thames Basin Heaths SPA (Ockham & Wisley Commons SSSI) – maximum process contribution for a <50,000 tpa gasification facility on Site 2 to nutrient nitrogen deposition on the Thames Basin Heaths SPA was 0.126 kg N ha yr.
ILAS09 (Land at Burnt Common Warehouse, Send)	7.4 E (Ash to Brookwood Heaths SSSI)	14.28	+4.28	-5.72	14.28	+4.28	-0.72	Site 2 (Weylands Treatment Works, Walton on Thames) which is 7.2 km north east of the Thursley, Ash, Pirbright & Chobham SAC (Colony Bog to Bagshot Heath SSSI) – maximum process contribution for a <50,000 tpa gasification facility on Site 2 to nutrient nitrogen deposition on the SAC was 0.028 kg N ha yr.
ILAS17 (York Town IE, Camberley)	4.5 W (Colony Bog & Bagshot Heath SSSI)	13.72	+3.72	-6.28	13.72	+3.72	-1.28	Site 4 (Leatherhead STW, Leatherhead) which is 5.5 km south east of the Thames Basin Heaths SPA (Ockham & Wisley Commons SSSI) – maximum process contribution for a <50,000 tpa gasification facility on Site 4 to nutrient nitrogen deposition on the Thames Basin Heaths SPA -was 0.098 kg N ha yr.
ILAS19 (Dunsfold Aerodrome, Cranleigh)	8.7 SE (Thursley, Hankley & Frensham Commons SSSI)	14.84	+4.84	-5.16	14.84	+4.84	-0.16	Site 3 (Slyfield IE, Guildford) which is 8.3 km south west of the Thames Basin Heaths SPA (Ockham & Wisley Commons SSSI) – maximum process contribution for a <50,000 tpa gasification facility on Site 3 to nutrient nitrogen deposition on the Thames Basin Heaths SPA was 0.098 kg N ha yr.
ILAS20 (Coxbridge BP, Farnham)	4.8 NW (Thursley, Hankley & Frensham Commons SSSI)	13.58	+3.58	-6.42	13.58	+3.58	-1.42	Land at Trumps Farm, Longcross (R18 SWLP Proposed Site Allocation) which is 5.1 km north west of the Thames Basin Heaths SPA (Horsell Common SSSI) – maximum process contribution for a <50,000 tpa gasification facility at Trumps Farm to nutrient nitrogen deposition on the Thames Basin Heaths SPA was 0.084 kg N ha yr
ILAS21 (Farnham TE, Farnham)	5.0 N (Thursley, Hankley & Frensham Commons SSSI)	13.58	+3.58	-6.42	13.58	+3.58	-1.42	Land at Trumps Farm, Longcross (R18 SWLP Proposed Site Allocation) which is 5.1 km north west of the Thames Basin Heaths SPA (Horsell Common SSSI) – maximum process contribution for a <50,000 tpa gasification facility at Trumps Farm to nutrient nitrogen deposition on the Thames Basin Heaths SPA was 0.084 kg N ha yr
ILAS22 (Monument Way East IE, Woking)	4.1 SE (Chobham Common SSSI)	13.30	+3.30	-6.70	13.30	+3.30	-1.70	Land at Martyrs Lane, Woking (R18 SWLP Proposed Site Allocation) which is 3.2 km south east of the Thursley, Ash, Pirbright & Chobham SAC (Chobham Common SSSI) – maximum process contribution for a <50,000 tpa gasification facility at Martyrs Lane to nutrient nitrogen deposition on the SAC was 0.084 kg N ha yr.

Table B8-C: Thursley, Ash, Pirbright & Chobham SAC: Indicative process contributions to site relevant critical loads for different thermal treatment development scenarios

SWLP Site Allocation	Development Scenario	Max PC to Nutrient N Deposition (kg N ha yr) at closest component SSSI	Northern Wet Heath / Dry Heath					Mires & Fens				
			Min CL (kg N ha yr)	Max PC as % Min CL	Max PC as % of Background	Max PEC (kg N ha yr)	Max PEC as % of Min CL	Min CL (kg N ha yr)	Max PC as % Min CL	Max PC as % of Background	Max PEC (kg N ha yr)	Max PEC as % of Min CL
Site 3: Slyfield Industrial Estate, Guildford	Beddington ERF	0.560	10	5.60	3.92%	14.84	148%	10	5.60	3.92%	14.84	148%
	Hooton Gasification	0.728	10	7.28	5.09%	15.01	150%	10	7.28	5.09%	15.01	150%
	Wealden EFW	0.518	10	5.18	3.63%	14.80	148%	10	5.18	3.63%	14.80	148%
	Charlton Ln Eco Pk	0.196	10	1.96	1.37%	14.48	145%	10	1.96	1.37%	14.48	145%

Table B8-D: Thursley, Ash, Pirbright & Chobham SAC: Indicative process contributions to site relevant critical loads for small-scale thermal treatment at ILAS

ILAS	Modelled Proxy	Maximum PC to Nutrient N Deposition (kg N ha yr)	Dwarf Shrub Heath					Mires & Fens				
			Min CL (kg N ha yr)	Max PC as % Min CL	Max PC as % of Background	Maximum PEC (kg N ha yr)	Max PEC as % of Min CL	Min CL (kg N ha yr)	Max PC as % Min CL	Max PC as % of Background	Maximum PEC (kg N ha yr)	Max PEC as % of Min CL
ILAS01 (Brooklands Ind Pk, Wintersells Rd Ind Pk, Byfleet IE, Byfleet)	<50,000 tpa gasification facility at Site 4	0.098	10	0.98%	0.74%	13.40	134%	10	0.98%	0.74%	13.40	134%
ILAS05 (Slyfield IE, Guildford)	<50,000 tpa gasification facility at Site 4	0.098	10	0.98%	0.69%	14.38	144%	10	0.98%	0.69%	14.38	144%
ILAS06 (Woodbridge Meadows IE, Guildford)	<50,000 tpa gasification facility at Site 4	0.098	10	0.98%	0.76%	12.98	130%	10	0.98%	0.76%	12.98	130%
ILAS07 (Land N&S of Lysons Ave, Ash Vale)	<50,000 tpa gasification facility at Martyrs Lane, Woking	1.428	10	14.28%	9.11%	17.11	171%	10	14.28%	9.11%	17.11	171%
ILAS08 (Riverwey IE, Astolat BP & Weyvern Pk, Peasmarsh)	<50,000 tpa gasification facility at Site 2	0.126	10	1.26%	0.84%	14.97	150%	10	1.26%	0.84%	14.97	150%
ILAS09 (Land at Burnt Common Warehouse, Send)	<50,000 tpa gasification facility at Site 2	0.028	10	0.28%	0.20%	14.31	143%	10	0.28%	0.20%	14.31	143%
ILAS17 (York Town IE, Camberley)	<50,000 tpa gasification facility at Site 4	0.098	10	0.98%	0.71%	13.82	138%	10	0.98%	0.71%	13.82	138%
ILAS19 (Dunsfold Aerodrome, Cranleigh)	<50,000 tpa gasification facility at Site 3	0.098	10	0.98%	0.66%	14.94	149%	10	0.98%	0.66%	14.94	149%
ILAS20 (Coxbridge BP, Farnham)	<50,000 tpa gasification facility at Trumps Farm, Longcross	0.084	10	0.84%	0.62%	13.66	137%	10	0.84%	0.62%	13.66	137%
ILAS21 (Farnham TE, Farnham)	<50,000 tpa gasification facility at Trumps Farm, Longcross	0.084	10	0.84%	0.62%	13.66	137%	10	0.84%	0.62%	13.66	137%
ILAS22 (Monument Way East IE, Woking)	<50,000 tpa gasification facility at Martyrs Lane, Woking	0.084	10	0.84%	0.63%	13.38	134%	10	0.84%	0.63%	13.38	134%

Part B-9: Thursley, Hankley & Frensham Commons (Wealden Heaths Phase 1) SPA

Qualifying Features	Sensitive to N deposition	Relevant N CL class	Empirical CL (kg N /ha/yr)	Exceedance impacts
Coniferous woodland habitats of the European nightjar (A224), & the Woodlark (A246)	Yes	Coniferous woodland	5-15	Changes in soil processes, nutrient imbalance, altered composition mycorrhiza and ground vegetation
Dwarf shrub heath habitats of the European nightjar (A224), the Woodlark (A246), & the Dartford Warbler (A302)	Yes	Dry heaths	10-20	Transition from heather to grass dominance, decline in lichens, changes in plant biochemistry, increased sensitivity to abiotic stress.

Allocated Site or ILAS	Distance & direction from SPA (km)	Background Deposition & Exceedance Ranges (kg N ha yr)						Modelled proxy (allocated site & relevant SAC/SPA) [ILAS]
		Coniferous Woodland			Dry Heath			
		Background	Exceedance Range		Back-ground	Exceedance Range		
			Min CL	Max CL		Min CL	Max CL	
ILAS06 (Woodbridge Meadows IE, Guildford)	9.7 NE	22.82	+17.82	+7.82	14.84	+4.84	-5.16	Lyne Lane, Chertsey (R18 SWLP Proposed Site Allocation) which is 9.6 km north west of the Thames Basin Heaths SPA (Ockham & Wisley Commons SSSI) – maximum process contribution for a <50,000 tpa gasification facility on Lyne Lane to nutrient nitrogen deposition on the Thames Basin Heaths SPA was 0.056 kg N ha yr.
ILAS07 (Land N&S of Lysons Ave, Ash Vale)	9.7 N	20.86	+15.86	+5.86	13.58	+3.58	-6.42	Lyne Lane, Chertsey (R18 SWLP Proposed Site Allocation) which is 9.6 km north west of the Thames Basin Heaths SPA (Ockham & Wisley Commons SSSI) – maximum process contribution for a <50,000 tpa gasification facility at Lyne Lane to nutrient nitrogen deposition on the Thames Basin Heaths SPA was 0.056 kg N ha yr.
ILAS08 (Riverwey IE, Astolat BP & Weyvern Pk, Peasmarsh)	6.6 NE	22.82	+17.82	+7.82	14.84	+4.84	-5.16	Site 2 (Weylands Treatment Works, Walton on Thames) which is 7.1 km north east of the Thames Basin Heaths SPA (Ockham & Wisley Commons SSSI) – maximum process contribution for a <50,000 tpa gasification facility on Site 2 to nutrient nitrogen deposition on the Thames Basin Heaths SPA was 0.126 kg N ha yr.
ILAS19 (Dunsfold Aerodrome, Cranleigh)	8.7 SE	22.82	+17.82	+7.82	14.84	+4.84	-5.16	Site 3 (Slyfield IE, Guildford) which is 8.3 km south west of the Thames Basin Heaths SPA (Ockham & Wisley Commons SSSI) – maximum process contribution for a <50,000 tpa gasification facility on Site 3 to nutrient nitrogen deposition on the Thames Basin Heaths SPA was 0.098 kg N ha yr.
ILAS20 (Coxbridge BP, Farnham)	4.8 NW	20.86	+15.86	+5.86	13.58	+3.58	-6.42	Land at Trumps Farm, Longcross (R18 SWLP Proposed Site Allocation) which is 5.1 km north west of the Thames Basin Heaths SPA (Horsell Common SSSI) – maximum process contribution for a <50,000 tpa gasification facility at Trumps Farm to nutrient nitrogen deposition on the Thames Basin Heaths SPA was 0.084 kg N ha yr.

Table B9-B: ILAS located within 10 km of the Thursley, Hankley & Frensham Commons (Wealden Heaths Phase 1) SPA

Allocated Site or ILAS	Distance & direction from SPA (km)	Background Deposition & Exceedance Ranges (kg N ha yr)						Modelled proxy (allocated site & relevant SAC/SPA) [ILAS]
		Coniferous Woodland			Dry Heath			
		Background	Exceedance Range		Back-ground	Exceedance Range		
			Min CL	Max CL		Min CL	Max CL	
ILAS21 (Farnham TE, Farnham)	5.0 N	20.86	+15.86	+5.86	13.58	+3.58	-6.42	Land at Trumps Farm, Longcross (R18 SWLP Proposed Site Allocation) which is 5.1 km north west of the Thames Basin Heaths SPA (Horsell Common SSSI) – maximum process contribution for a <50,000 tpa gasification facility at Trumps Farm to nutrient nitrogen deposition on the Thames Basin Heaths SPA was 0.084 kg N ha yr

Table B9-C: Thursley, Hankley & Frensham Commons (Wealden Heaths Phase 1) SPA: Indicative process contributions to site relevant critical loads for small-scale thermal treatment at ILAS

ILAS	Modelled Proxy	Maximum PC to Nutrient N Deposition (kg N ha yr)	Min CL (kg N ha yr)	Coniferous Woodland				Dry Heath				
				Max PC as % Min CL	Max PC as % of Background	Maximum PEC (kg N ha yr)	Max PEC as % of Min CL	Min CL (kg N ha yr)	Max PC as % Min CL	Max PC as % of Background	Maximum PEC (kg N ha yr)	Max PEC as % of Min CL
ILAS06 (Woodbridge Meadows IE, Guildford)	<50,000 tpa gasification facility at Lyne Lane, Chertsey	0.056	5	1.12	0.25%	22.88	458%	10	0.56	0.38%	14.90	149%
ILAS07 (Land N&S of Lysons Ave, Ash Vale)	<50,000 tpa gasification facility at Lyne Lane, Chertsey	0.056	5	1.12	0.27%	20.92	418%	10	0.56	0.41%	13.64	136%
ILAS08 (Riverwey IE, Astolat BP & Weyvern Pk, Peasmarsh)	<50,000 tpa gasification facility at Site 2	0.126	5	2.52	0.55%	22.95	459%	10	1.26	0.85%	14.97	150%
ILAS19 (Dunsfold Aerodrome, Cranleigh)	<50,000 tpa gasification facility at Site 3	0.098	5	1.96	0.43%	22.92	458%	10	0.98	0.66%	14.94	149%
ILAS20 (Coxbridge BP, Farnham)	<50,000 tpa gasification facility at Trumps Farm, Longcross	0.084	5	1.68	0.40%	20.94	419%	10	0.84	0.62%	13.66	137%
ILAS21 (Farnham TE, Farnham)	<50,000 tpa gasification facility at Trumps Farm, Longcross	0.084	5	1.68	0.40%	20.94	419%	10	0.84	0.62%	13.66	137%

Part B-10: Wimbledon Common SAC

Qualifying Features	Sensitive to N deposition	Relevant N CL class	Empirical CL (kg N /ha/yr)	Exceedance impacts
Northern Atlantic wet heaths with <i>Erica tetralix</i> (H4010)	Yes	Northern wet heath	10-20	Transition heather to grass. Ericaceous species susceptible to frost & drought.
European dry heaths (H4030)	Yes	Dry heath	10-20	Transition from heather to grass dominance, decline in lichens, changes in plant biochemistry, increased sensitivity to abiotic stress.

Allocated Site or ILAS	Distance & direction from SPA (km)	Background Deposition & Exceedance Ranges (kg N ha yr)						Modelled Scenarios [Allocated Sites] /Modelled proxy (allocated site & relevant SAC/SPA) [ILAS]
		Background	Wet Heath		Back-ground	Dry Heath		
			Exceedance Range	Min CL		Max CL	Exceedance Range	
Site 2: Weylands TW, Walton on Thames	9.9 SW	15.26	+5.26	-4.74	15.26	+5.26	-4.74	Beddington ERF (c.275,000 tpa EFW) maximum PC of 0.280 kg N ha yr; Hooton Gasification (c.284,000 tpa) maximum PC of 0.336 kg N ha yr; Wealden EFW (c.180,000 tpa) maximum PC of 0.252 kg N ha yr; Charlton Lane Eco Park (c. 44,710 tpa gasification) maximum PC of 0.070 kg N ha yr.
ILAS03 (Molesey IE, West Molesey)	8.9 SW	15.26	+5.26	-4.74	15.26	+5.26	-4.74	Site 2 (Weylands TW, Walton on Thames) which is 9.9 km south west of the SAC – maximum process contribution for a <50,000 tpa gasification facility on Site 2 to nutrient nitrogen deposition on the SAC was 0.070 kg N ha yr
ILAS04 (Longmead IE, Epsom)	8.5 S	15.26	+5.26	-4.74	15.26	+5.26	-4.74	Site 2 (Weylands TW, Walton on Thames) which is 9.9 km south west of the SAC – maximum process contribution for a <50,000 tpa gasification facility on Site 2 to nutrient nitrogen deposition on the SAC was 0.070 kg N ha yr

SWLP Site Allocation	Development Scenario	Max PC to Nutrient N Deposition (kg N ha yr) at closest component SSSI	Northern Wet Heath					Dry Heath				
			Min CL (kg N ha yr)	Max PC as % of Min CL	Max PC as % of Background	Max PEC (kg N ha yr)	Max PEC as % of Min CL	Min CL (kg N ha yr)	Max PC as % of Min CL	Max PC as % of Background	Max PEC (kg N ha yr)	Max PEC as % of Min CL
Site 2: Weylands TW, Walton on Thames	Beddington ERF	0.280	10	2.80	1.83%	15.54	155%	10	2.80	1.83%	15.54	155%
	Hooton Gasification	0.336	10	3.36	2.20%	15.60	156%	10	3.36	2.20%	15.60	156%
	Wealden EFW	0.252	10	2.52	1.65%	15.51	155%	10	2.52	1.65%	15.51	155%
	Charlton Ln Eco Pk	0.070	10	0.70	0.46%	15.33	153%	10	0.70	0.46%	15.33	153%

Table B10-D: Wimbledon Common SAC: Indicative process contributions to site relevant critical loads for small-scale thermal treatment at ILAS

ILAS	Modelled Proxy	Maximum PC to Nutrient N Deposition (kg N ha yr)	Min CL (kg N ha yr)	Northern Wet Heath				Dry Heath				
				Max PC as % of Min CL	Max PC as % of Background	Maximum PEC (kg N ha yr)	Max PEC as % of Min CL	Min CL (kg N ha yr)	Max PC as % of Min CL	Max PC as % of Background	Maximum PEC (kg N ha yr)	Max PEC as % of Min CL
ILAS03 (Molesey IE, West Molesey)	<50,000 tpa gasification facility at Site 2	0.070	10	0.70	0.46%	15.33	153%	10	0.70	0.46%	15.33	153%
ILAS04 (Longmead IE, Epsom)	<50,000 tpa gasification facility at Site 2	0.070	10	0.70	0.46%	15.33	153%	10	0.70	0.46%	15.33	153%

Part B-11: Windsor Forest & Great Park SAC

Table B11-A: Site Relevant Critical Loads for the Habitats of the Windsor Forest & Great Park SAC				
Qualifying Features	Sensitive to N deposition	Relevant N CL class	Empirical CL (kg N /ha/yr)	Exceedance impacts
Old acidophilous oak woods with <i>Quercus robur</i> on sandy plains (H9190)	Yes	Acidophilous Quercus-dominated woodland	10-15	Decrease in mycorrhiza, loss of epiphytic lichens and bryophytes, changes in ground vegetation
Atlantic acidophilous beech forests with <i>Ilex</i> & sometimes also <i>Taxus</i> in the shrublayer (Quercion robori-petraeae or Ilici-Fagenion) (H9120)	Yes	Fagus woodland	10-20	Changes in ground vegetation and mycorrhiza, nutrient imbalance, changes soil fauns

Table B11-B: Allocated Sites (Policy 11a) & ILAS located within 10 km of the Windsor Forest & Great Park SAC								
Allocated Site or ILAS	Distance & direction from SPA (km)	Background Deposition & Exceedance Ranges (kg N ha yr)						Modelled Scenarios [Allocated Sites] /Modelled proxy (allocated site & relevant SAC/SPA) [ILAS]
		Acidophilous Quercus-dominated woodland			Fagus woodland			
		Background	Exceedance Range		Back-ground	Exceedance Range		
			Min CL	Max CL		Min CL	Max CL	
Site 1: Oakleaf Farm, Stanwell Moor	5.9 E	25.48	+15.48	+10.48	25.48	+15.48	+5.48	Beddington ERF (c.275,000 tpa EFW) maximum PC of 0.322 kg N ha yr; Hooton Gasification (c.284,000 tpa) maximum PC of 0.392 kg N ha yr; Wealden EFW (c.180,000 tpa) maximum PC of 0.280 kg N ha yr; Charlton Lane Eco Park (c. 44,710 tpa gasification) maximum PC of 0.084 kg N ha yr.
ILAS14 (Thorpe IE, Thorpe)	4.8 E	21.98	+11.98	+6.98	21.98	+11.98	+1.98	Lyne Lane, Chertsey (R18 SWLP Proposed Site Allocation) which is 3.9 km east of the SAC – maximum process contribution for a <50,000 tpa gasification facility on Lyne Lane to nutrient nitrogen deposition on the SAC was 0.098 kg N ha yr.
ILAS22 (Monument Way East IE, Woking)	9.9 SE	21.98	+11.98	+6.98	21.98	+11.98	+1.98	Land at Martyrs Lane, Woking (R18 SWLP Proposed Site Allocation) which is 8.1 km south east of the SAC – maximum process contribution for a <50,000 tpa gasification facility on land at Martyrs Lane to nutrient nitrogen deposition on the SAC was 0.056 kg N ha yr

Table B11 C: Windsor Forest & Great Park SAC: Predicted process contributions to site relevant critical loads for different thermal treatment development scenarios

SWLP Site Allocation	Development Scenario	Max PC to Nutrient N Deposition (kg N ha yr) at closest component SSSI	Acidophilous Quercus-dominated woodland					Fagus woodland				
			Min CL (kg N ha yr)	Max PC as % Min CL	Max PC as % of Background	Max PEC (kg N ha yr)	Max PEC as % of Min CL	Min CL (kg N ha yr)	Max PC as % Min CL	Max PC as % of Background	Max PEC (kg N ha yr)	Max PEC as % of Min CL
Site 1: Oakleaf Farm, Stanwell Moor	Beddington ERF	0.322	10	3.22	1.26%	25.80	258%	10	3.22	1.26%	25.80	258%
	Hooton Gasification	0.392	10	3.92	1.54%	25.87	259%	10	3.92	1.54%	25.87	259%
	Wealden EfW	0.280	10	2.80	1.10%	25.76	258%	10	2.80	1.10%	25.76	258%
	Charlton Ln Eco Pk	0.084	10	0.84	0.33%	25.56	256%	10	0.84	0.33%	25.56	256%

Table B11-D: Windsor Forest & Great Park SAC: Indicative process contributions to site relevant critical loads for small-scale thermal treatment at ILAS

ILAS	Modelled Proxy	Maximum PC to Nutrient N Deposition (kg N ha yr)	Acidophilous Quercus-dominated woodland					Fagus woodland				
			Min CL (kg N ha yr)	Max PC as % Min CL	Max PC as % of Background	Maximum PEC (kg N ha yr)	Max PEC as % of Min CL	Min CL (kg N ha yr)	Max PC as % Min CL	Max PC as % of Background	Maximum PEC (kg N ha yr)	Max PEC as % of Min CL
ILAS14 (Thorpe IE, Thorpe)	<50,000 tpa gasification facility at Lyne Lane, Chertsey	0.098	10	0.98	0.45%	22.08	221%	10	0.96	0.45%	22.08	221%
ILAS22 (Monument Way East IE, Woking)	<50,000 tpa gasification facility at Martyrs Lane, Woking	0.056	10	0.56	0.25%	22.04	220%	10	0.56	0.25%	22.04	220%

